

1	425	35.7	966	9	US-09-974-300-2190	Sequence 2190, Ap
2	242	20.3	1213	3	US-09-974-300-2182	Sequence 2182, Ap
3	149	13.5	1233	15	US-10-205-033-7	Sequence 7, Appli
4	149	13.5	60196	15	US-10-205-033-1	Sequence 1, Appli
5	135.4	11.4	1197	15	US-10-156-761-576	Sequence 576, App
6	135.4	11.4	9025608	15	US-10-156-761-1	Sequence 1, Appli
7	130.6	11.0	1212	22	US-10-680-860A-23	Sequence 23, Appli

8	130.6	11.0	30943	22	US-10-680-860A-1	Sequence 1, Appl11		
C	9	120.1	84428	18	US-10-229-1A8B-1	Sequence 1, Appl1		
	10	120.4	10.1	1215	16	US-10-214-446-39	Sequence 39, Appl1	
	11	117.8	9.9	1197	15	US-10-156-761-2364	Sequence 2364, Ap	
	C	12	117.8	9.9	9025608	15	US-10-156-761-1	Sequence 1, Appl1
		13	115.4	9.7	1215	15	US-10-156-761-4523	Sequence 4523, Ap
		14	114.4	9.6	1164	15	US-10-156-761-6226	Sequence 6226, Ap
		15	114.2	9.6	1248	16	US-10-214-446-55	Sequence 55, Appl1
	C	16	114.2	9.6	2731748	19	US-10-237-465A-1	Sequence 1, Appl1
		17	112.8	9.5	1290	9	US-09-738-626-617	Sequence 617, App
		18	112.8	9.5	1407	19	US-10-781-014-779	Sequence 779, App
		19	112.8	9.5	1414	21	US-10-494-836-23	Sequence 23, Appl
	C	20	112.8	9.5	3309400	9	US-09-738-626-1	Sequence 1, Appl1
		21	111.4	9.4	1257	18	US-10-389-647-206	Sequence 206, App
		22	110.2	9.3	1155	9	US-09-974-300-2185	Sequence 2185, Ap
		23	108.8	9.1	85915	19	US-10-647-196-1	Sequence 1, Appl1
		24	108.2	9.1	9024	20	US-10-611-442-1	Sequence 1, Appl1
		25	106.2	8.9	1179	15	US-10-156-761-1975	Sequence 1975, Ap
		26	106	8.9	1215	16	US-10-214-446-49	Sequence 49, Appl
	C	27	105.4	8.8	82993	15	US-10-080-170-645	Sequence 645, App
		28	105.4	8.8	82993	19	US-10-080-170-645	Sequence 645, App
	C	29	105.4	8.8	82993	19	US-10-468-356-645	Sequence 645, App
		30	103	8.6	215	9	US-09-974-300-2242	Sequence 2242, Ap
		31	97.6	8.2	1191	15	US-10-156-761-7165	Sequence 7165, Ap
		32	96.8	8.1	1371	15	US-10-156-761-3523	Sequence 3523, Ap
		33	96.4	8.1	1188	21	US-10-492-928A-8	Sequence 8, Appl1
		34	96.4	8.1	1418	21	US-10-492-928A-11	Sequence 11, Appl
		35	96.4	8.1	1418	21	US-10-492-928A-69	Sequence 69, Appl
		36	95.4	8.0	1278	16	US-10-214-446-19	Sequence 19, Appl
		37	93	7.8	1239	16	US-10-214-446-35	Sequence 35, Appl
		38	92.4	7.8	1209	15	US-10-205-032-9	Sequence 9, Appl1
		39	92.4	7.8	1248	15	US-10-156-761-408	Sequence 408, App
		40	92.4	7.8	60196	15	US-10-205-032-1	Sequence 1, Appl1
		41	92.4	7.8	100000	15	US-10-156-761-15103	Sequence 15103, A
		42	92	7.7	1233	15	US-10-156-761-826	Sequence 826, App
		43	91.6	7.7	2731748	19	US-10-237-465A-1	Sequence 1, Appl1
		44	90.4	7.6	135638	16	US-10-314-657-1	Sequence 1, Appl1
		45	90.4	7.6	135638	21	US-10-473-193-1	Sequence 1, Appl1

RESULT 1

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US-09-974-300-2190
; Sequence 2190, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods For Monitoring Multiple Genes
; TITLE OF INVENTION: Expression
; FILE REFERENCE: 10085.500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2190
; LENGTH: 966
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-974-300-2190

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Query Match 35.7%; Score 425; DB 9; Length 966;

Best Local Similarity	65.4%; Pred. No. 1.7e-124;
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Matches 623; Conservative 0; Mismatches 330; Indels 0; Gaps 0;

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Qy 290 ACAAGCCCTTTACTCCGCGGTGATGAAGCAATGGGAAACGAGAAATTCAGAAATCACAG 349
Db 67 ACAAGGCTTTTACCGCGCGTATGAAGAGTGGGAGCGCGCATTCGCGAACTGACGA 126
Qy 350 ATGAACCTGATTCAAAATTTTCAGGCGCGAGTTCAGCTTTCACCTTGTTCACGATTTTTCAT 409
Db 127 ATCAATGTCTGATGATTCGCGGCGAGGAGAGATCGACCTTGTACAGGATTTTTCAT 186
Qy 410 ACCCGCTCCCGGTATTGTGATATCTGATCTGCTGGAGTGCCTTCAGCGCAGATGGAAC 469
Db 187 ATCCGTTGCCGTAATCGTCAATTCGGAATTCGTCGCGTTCCTTTGGTGTATAAGCATC 246
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Db 307 TGAACGAGTGGAAAAACATCAGGACCAAGGCGGAGAGAGCTGACCGCATCTTTTGAA 366
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Qy 650 CGGAAGAAACAGCGAGAGAGCTGTCGGGTGAAGAGCTGATTCGGTTTTGACGCTGCTGC 709
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Db 547 AAACACCGGCGGTATGACGAGCTCGCAGGCACTCTGAACTGATTCGCGAGGAGTGC 606
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Db 607 AGGAAGCCGTGCTTTCCGGGCGCCAGCGCGGATGATGTGCGCTTCGTTTAAACAGGATA 666
Qy 890 CGGAGATCGGGGGCACTGATTTAAAGAGGTGATATGTTTGGCGTTTGTGGCATCGG 949
Db 667 CCGAGATCAGAGAGTAACTGTGAAAAGAGGAGAGGTGTGATCGCTTTCTTGTCTCTG 726
Qy 950 CAAATCGTGATGAAGCAAAAGTTTGACAGACCGCACATGTTTGATATCCCGCGCCATCCCA 1009
Db 727 CCAACCGTGATGAACGAAATTTGAGAGGCGGCACGAAATTTGATATTCACCGCCATCCGA 786
Qy 1010 ATCCGCATATTCGTTTGGCCAGCGCATCCATTTTTCCTTGGGCGCGCGCTTGCCGTC 1069
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RESULT 2

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US-09-974-300-2182
; Sequence 2182, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods For Monitoring Multiple Gene
; TITLE OF INVENTION: Expression
; FILE REFERENCE: 10085.500-US
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; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2182
; LENGTH: 1213
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-974-300-2182

Query Match 20.3%; Score 242; DB 9; Length 1213;
Best Local Similarity 53.6%; Pred. No. 7.2e-66;
Matches 550; Conservative 0; Mismatches 470; Indels 6; Gaps 2;

Qy 75 TCCGTTTCCATGGTATGAATCGATGAGAAAGATGCGCTGTTCTTCTTTGATGAAGAAAA 134
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Db 152 AAAATGCTTTGATATCTTTCTTATGAAGAGTTCAATTCGTGTAAAAAACCCTGAAGCT 211
Qy 195 GTTTTCCAGTTGATGCGCGCAGCAGACAAGCTCTATTGGAAATTCATCATTTACATGGA 254
Db 212 CTTCTC-----TTCAAAACGCGCGGTAAATGGAA--GGAAAAAGTATATTAAACAATGA 265
Qy 255 CCGCGGGAAGCATACAAAATCCGTTCAAGTGTGAAACAAAGCCTTTTATCTCCGCGGTGAT 314
Db 266 CCGCGGAGACACACAAAATGAGAGCCATGTTAATAAGCTTTTACCGCGGAAGCGGT 325
Qy 315 GAAGCAATGGAAACGAGAAATTCAGAAATCACAGATGAACTGATTTCAAAATTTTCAGGG 374
Db 326 GAAAGAGCTTGAACCGCATATCGAAGAGTGCAGCGCTTTTATTTTAAACGAAGCGAAACA 385
Qy 375 GCGCAGTGAAGTTGACCTTTGTTTACAGATTTTATACCGCTTCGGTTATTGTGATATC 434
Db 386 GAAAGAAATGTTGATGTGGTGGACGACTTGGCTGCTCTCTTCCGTCATTTATCATCGC 445
Qy 435 TGAGCTGCTGGGAGTGCCTTCAGCGCAGATGGAACAGTTTAAAGCATGGTCTGATCTTCT 494
Db 446 TGAACCTTTTAGCGCTTCGCGCTGAAGACCGCTCATGTTTAAACATTTATTCAGACATCT 505
Qy 495 GGTCAATACACGAGAGATTAAGTGAAGAGCTGAAAAAGCCTTTTGGAGAGAACGAGA 554
Db 506 TGTGCGAGTGGGAAGACCGCTCGGCTGAAGCGCGCGAGCGGATGTACAAAACGACGTGA 565
Qy 555 TAAAGTGTGAGGAAGAACTGGCGCGGTTTTTTTGGCGCATCATAGAAGAAAAAGCGAAACA 614
Db 566 AGAAGGCAATCGGTTTTTGGCGGATTTATTTTAAACATTTATCAAGCAGCGCAAAAAGA 625
Qy 615 ACCGGAACAGGATATTATTTCTATTATTTAGTGAAGCGGAAGAAAACAGCGGAGAAGCTGC 674
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Qy 1095 TTGTAT 1100
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RESULT 3
US-10-205-032-7
; Sequence 7, Application US/10205032
; Publication No. US20030113874A1
; GENERAL INFORMATION:
; APPLICANT: Farnet, Chris
; APPLICANT: Yang, Xianshu
; TITLE OF INVENTION: GENES AND PROTEINS FOR THE BIOSYNTHESIS OF ROSARAMICIN
; FILE REFERENCE: 3016-2US
; CURRENT APPLICATION NUMBER: US/10/205,032
; CURRENT FILING DATE: 2002-07-26
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 1233
; TYPE: DNA
; ORGANISM: micromonospora carbonacea subspecies aurantiaca
US-10-205-032-7

Query Match 12.5%; Score 149; DB 15; Length 1233;
Best Local Similarity 48.5%; Pred. No. 4.3e-36;
Matches 410; Conservative 0; Mismatches 435; Indels 0; Gaps 0;

Qy 239 CCATCATTTAAATGACCCCGGAGCATACAAATAATCGTTTCAAGTGAACAAAGCCT 298
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Qy 659 CAGGCGAGAGCTGTCCGGTGAAGAGCTGATTCGTTTTGACCGTGTGTGTGTGGCG 718
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Qy 719 GAAATGAACCACTACAAACCTGATTTTCAAATGCGATGTACAGCATATTAGAAACGCCAG 778
Db 734 GGCACATCTCCAGCGCCACGCTGCTCAGCAACCTGTTTCTTGGTGTCTGGAGAGCACCCGC 793
Qy 779 GCGTTTACGAGGAACTCCGCGAGCATCTGAACTGATGCTCAGGCGAGTGGAGAAAGCCT 838
Db 794 AGGCACAGGCGCGGTCCGCGCGAGACCGGACGCTCGTGGCGGGCGTGTATCGAGGAGCGC 853
Qy 839 TCGCTTTTCAGAGCGCGCGCGCGCTTTTGGAGGGCATTTGCAAGCGGGATACGGAGATCG 898
Db 854 TCGCTACCGGTCCCGCTTCAACTGCATCTTCGGATCTTGAACGAGAGACACCGACATCC 913
Qy 899 GGGGCGACCTGATTTAAAGAGGTGATATGTTTTGGCGTTTGTGGCAATCGGCAAACTGTG 958
Db 914 TCGGCCACCCCATCGCGCAAGGGCCAGATGCTGATCGCTCGCTCGCTCCGCGAACCGCG 973
Qy 959 ATGNAAGCAAAAGTTTGACAGACCGCACATGTTTGTATATCCCGCCCATCCCAATCCGCATA 1018
Db 974 ACACCGAGGTGTTTACCGGACCCCGGACACCTTCGACATCCGACGAGTTCGAACAAAGCAC 1033
Qy 1019 TTGCGTTTGGCCAGCGGCATCATTTTTCCTTGGGGCCCGCTTGGCGCTTCTTGAAGCAA 1078
Db 1034 TGGCGTTTCGGCCACGGCATCCACACTGCTTGGCGGCTTCTTGGCCAGGCTGGAGGCGA 1093
Qy 1079 ATATC 1083
Db 1094 AGGTC 1098

RESULT 4
US-10-205-032-1/c
; Sequence 1, Application US/10205032
; Publication No. US20030113874A1
; GENERAL INFORMATION:
; APPLICANT: Farnet, Chris
; APPLICANT: Yang, Xianshu
; APPLICANT: Staffa, Alfredo
; TITLE OF INVENTION: GENES AND PROTEINS FOR THE BIOSYNTHESIS OF ROSARAMICIN
; FILE REFERENCE: 3016-2US
; CURRENT APPLICATION NUMBER: US/10/205,032
; CURRENT FILING DATE: 2002-07-26
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 60196
; TYPE: DNA
; ORGANISM: micromonospora carbonacea subspecies aurantiaca
US-10-205-032-1

Query Match 12.5%; Score 149; DB 15; Length 60196;
Best Local Similarity 48.5%; Pred. No. 5.3e-35;
Matches 410; Conservative 0; Mismatches 435; Indels 0; Gaps 0;

Qy 239 CCATCATTTAAATGACCCCGGAGCATACAAATAATCGTTTCAAGTGAACAAAGCCT 298
Db 3608 CCATCGGGCATCGACCCCGCGGCGACGCGCGCTGCGCAAGCTGTGTGAGCCAGGCGT 3549
Qy 299 TTACTCCCGCGGTGATGAAGCAATGGGAACCGAGATTCAGAGAAATCACAGATGAACTGA 358
Db 3548 TCACCCCGCGCGGATCGCCAGATGGAGTTCGGATCGGGCAGATCACCGCCGACGTGC 3489
Qy 359 TTCAAAAATTTTCAGGGGCGCAGTGAGTTTTCACCTTGTTCAGATTTTTCATACCCGCTTC 418
Db 3488 TCGACAGGTAGCGGACACGAGACCGGATCGACATCGCCAGGACCTCGCGTACCCGCTGC 3429
Qy 419 CGGTTATTTGATATCTGAGTGTGGAGTGCCTTCAGCGCAGATGAAGAGCTTTAAAG 478
Db 3428 CGGTGACGGTCATCGCGGAGCTGTCTGCGCATTCGCCAAGGATCACGAGAAGTTCCGCG 3369
Qy 479 CATGCTCTGATCTTCTGTGTAGTACACCGAGGATAAAGTGAAGAGCTGAAGAAAGCCT 538
Db 3368 AGTGGGTGGACATCATCTCTCGCAACGAAGGGCTGGAGTATCCCAACCTCCCGACGACT 3309
```

QY 539 TTTTGAAGAACGAGATAAGTGTGAGGAAGAACTGGCGCGTCTTTTTCGGGCATCATAG 598
Db 3308 TCACCGAGAGCGTGGCGCCGCGCATCTGAGGAGTGTTCGGAATCTCTTAAGCCAGATCG 3249
QY 599 AAGAAAGCGAAACAAACCGGAACAGGATATTTATTTCTTTTATGTAAGCGGAAGAAA 658
Db 3248 CCCACAAGCGCCGAAACCGAAGGACGACCTGATCAGCGGCGCTCTGTGCGCGGAGGTCTG 3189
QY 659 CAGCGGAGAGCTGTCGCGTGAAGAGCTGATTCCTGTTTGGACGCTGCTGCTGGTGGCG 718
Db 3188 ACGGGCGAAGCTGACCGGACGAGGAAGTGTCAACATGCTGCGCTGCTCTCACCGCGG 3129
QY 719 GAAATGAACACTACTACAAACCTGATTTCAAATGCGATGTACAGCATATTTAGAAAACGCCAG 778
Db 3128 GGCACATCTCCAGCGCCAGCTGCTCAGCAACCTGTTCTGTGTGCTGGAGGACCCGCG 3069
QY 779 GCGTTTACGAGAACTGCGGACCCATCTCTGAATGATGCTCAGGAGTGGAGGAAGCT 838
Db 3068 AGGCACAGCGCGGTTCGCGCGGACCGCAGCTCTGTGCGGCGTGTATCGAGGAGACGC 3009
QY 839 TCGTTTACAGAGCGCGGCGCGGTTTGGAGCGCATTCGCAAGCGGATACGGAGATCG 898
Db 3008 TCGCTACCGTCCCGGTTCAACTGCATCTTCCGATCTGAAACGAGGACACCGACATCC 2949
QY 899 GGGGCGACCTGATTAAGAAAGGTGATATGTTTGGCGTCTTGTGCTCGGCAAAATCGTG 958
Db 2948 TCGGCGACCCCATGCGCAAGGCCAGATGCTGATCGCTGGATCGCTCCGCGAACCGG 2889
QY 959 ATGAAGCAAGTTTGACAGACCGCAATGTTTGTATATCGCGCGCATCCCAATCCGCATA 1018
Db 2888 ACACCGAGGTGTTACCGGACCGGACACCTTCGACATCGACGCGAGTCGAACAAGCACC 2829
QY 1019 TTGCGTTGGCCACGGCATCTATTTTGGCTTGGGCGCCGCTTGGCGTCTTTGAAGCAA 1078
Db 2828 TGGCGTTGGCCACCGGCATCCACCATGCTGCGCGCGTTCCTGCGCGCGTTCCTGCGGCGA 2769
QY 1079 ATATC 1083
Db 2768 AGGTC 2764

RESULT 5
US-10-156-761-576
; Sequence 576, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 576
; LENGTH: 1197
; TYPE: DNA
; ORGANISM: Streptomyces avermitilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1197)
US-10-156-761-576

Query Match 11.4%; Score 135.4; DB 15; Length 1197;

Best Local Similarity 48.9%; Pred. No. 9.5e-32;
Matches 364; Conservative 0; Mismatches 381; Indels 0; Gaps 0;
QY 344 TCACAGATGACTGATTCATAAAATTTTCAGGGGCGCAGTGTGACCTTCTGTTCACGATT 403
Db 347 TGAACAAGAACTGCGGAAAGTGTTCAGGAGGCGCAGCAGATCGACGTCTGTACGACT 406
QY 404 TTTCATACCCGCTTCCGCTTATTTGTGATATCTGAGCTGCTGGGAGTGCCTTTCAGCGCAGA 463
Db 407 TCGCTTACCCACTGCGCTGACCGTGTATCTGCCGCTGCTCGGCATCCGGAAGGACG 466
QY 464 TGGAAAGTGTAAAGCATGTCTGATCTTCTGGTCTAGTACACCGAAGGATAAAGTGAAG 523
Db 467 AGCAGCTCTTCCAGGACTGGACCATACCTCTGTCGCGTCCGCGACATCCGGGCCCGAAG 526
QY 524 AAGCTGAAAAAGCCTTTTGGAAAGACGAGATAAGTGTGAGGAAGAACTGCGCGCTTTT 583
Db 527 GTGACACCGCGAAGCGGACCCAGCGCGCGACCGAGCGCAGAGAGATGGGCGCAGTACC 586
QY 584 TTGCGCGCATCATAGAAGAAAGCGAAACAAACCGGAACAGGATATTTTCTATTTTATG 643
Db 587 TGGTCCAACCTGCGGAACAGCGCGCTCGGCGCCACCGGCGACATGCTCTCCGACCTCG 646
QY 644 TGGAAAGCGAAGAAACAGGCGGAGAAAGTGTCCGCTGAAGAGCTGATTCGCTTTTGCAGCG 703
Db 647 TCAACGAACCGAACCAGCGCGCTCAGCGAGGAGACCTGCGCGCGAACAACCATCC 706
QY 704 TGCTGCTGGTGGCGGAAATGAACACCACTACAAACCTGATTTCAAATGCGATGTACAGCA 763
Db 707 TGCTGTTTATCGCGGACACGAGACACGCTCAATCTGATCGCAACCGCGCTCTCACCC 766
QY 764 TATTAGAAACCCAGGCGGTTTACGAGGAACCTGCGCAGCCTCTCTGAACTGATGCTCAGG 823
Db 767 TGTGGCGCGCGCGACCACTGACCGCTCTGCGGGAAGACCCCGAGCTGTGCGCGAG 826
QY 824 CAGTGGAGGAAGCTTGTGCTTTAGAGCGCGCGCGCGCGGTTTGGAGGCGCATTTGCCAAGC 883
Db 827 CGGTGGAGAACTGCTGCGCTACGAGCGCGCGTCCACATCGCGGAGCGGTTCCCTCTCG 886
QY 884 GGGATACGAGATCGGGGGCACTGATTAAGAAGGTGATATGTTTGGCGTTTGTGG 943
Db 887 TCGACATCGCTGCGCGGCAACAGATCCCGGTGGCAGCGTCCGTCTATCTGGGCTGG 946
QY 944 CATCGCAATTCGTGATGAAGCAAAAGTTTGACAGACCGCACATGTTTGATATCGCGCGCC 1003
Db 947 CCTCGGCGAGCGCGACCCGATGCGGTTTTCAGCGAACCGGTTTCGACCCACCGCGCC 1006
QY 1004 ATCCCAATCCGATATTGCGTTTGGCCACGGCATCCATTTTGGCTTGGGCGCGCGCTTG 1063
Db 1007 CGGACAACCGACGCTGCGCTTCGGCAGCGGTATCCACCTGTGCTTCGCGCGCGCCTCG 1066
QY 1064 CCGCTCTTGAAGCAAAATATCGCGTT 1088
Db 1067 CCGTATCGAAGCGGCGCGCT 1091

RESULT 6
US-10-156-761-1
; Sequence 1, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089

;; PRIOR FILING DATE: 2001-05-30
;; PRIOR APPLICATION NUMBER: JP 2001-272697
;; PRIOR FILING DATE: 2001-08-02
;; NUMBER OF SEQ ID NOS: 15109
;; SEQ ID NO 1
;; LENGTH: 9025608
;; TYPE: DNA
;; ORGANISM: Streptomyces avermitilis
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (4187715)
;; OTHER INFORMATION: a, t, c, g, other or unknown
US-10-156-761-1

Query Match 11.4%; Score 135.4; DB 15; Length 9025608;
Best Local Similarity 48.9%; Pred. No. 3e-29;
Matches 364; Conservative 0; Mismatches 381; Indels 0; Gaps 0;

Qy 344 TCACAGATGAAGTCAAAAATTCAGGGCGCAGTGGATTTGACCTGTTTCCAGATT 403
Db 737658 TGACCAAGGAAGTGGCGGAAGTGTCCAGGAGGCGCAGATCGATCGTGCAGCACT 737717

Qy 404 TTTTCATCCCGCTTCCCGTATTGATGATCTGAGCTGCTGGAGTGCTTTCAGCGAGA 463
Db 737718 TCGCTTACCCACTGCGCGTGACCGTGATCTGCGCGCTGCTCGGATCCCGGACAAGACG 737777

Qy 464 TGGAACAGTTAAAGCATGCTGATCTTCTGTCAGTACACCGAAGGATAAAAAGTGAAG 523
Db 737778 AGCAGCTTTCAGGACTGGACCGATACCTCGTGGCTCGCGCATCGGGCCCGAAG 737837

Qy 524 AAGCTGAAAAAGCTTTTGGAGAAACGAGATAGTGTGAGGAAGAACTGCGCGGTTT 583
Db 737838 GTGACACCGCGAAGCGGACCGAGCGCGCGACCGAGCGCAGCAGAGATGGCGCAGTACC 737897

Qy 584 TTGCGGCGATCATAGAAAGAGGAAACAAACCGGACAGATATTTCTATTTAG 643
Db 737898 TGGTCCAACTCGCGAAGACGCGCGCGGTGGCGCCACCGGCGATGCTCTCCGACCTCG 737957

Qy 644 TGGAGCGGAAGAACAGCGAGAGTGTGCGGTGAAGAGCTGATTCGTTTTGCGACGC 703
Db 737958 TCACGAACCGGACCGCGCGCGCAGCGCTCAGGAGGAGGACCTGGCGGGAACCATCC 738017

Qy 704 TGCTGCTGGTGGCGGAAATGAACCACTA CAACCTGATTTCAAATGCGATGTACAGCA 763
Db 738018 TGCTGTTTCATCGCGGACACGAGACCAAGTCAATCTGATCGCAACCGCGCTCCTCACC 738077

Qy 764 TATTAGAAACCGCAGGCGTTTACGAGGAACTGCGCAGGCCATCTGAACTGATGCTCAGG 823
Db 738078 TGTTCGCGCGCGCGACCAACTGGAACCGTCTGCGGAAAGACCCAGCGCTGCTGCGCGAG 738137

Qy 824 CAGTGGAGGAAGCCTTGCGTTTCAGAGCGCGCGCGCGGTTTTCAGGGCGCATTGCCAAAGC 883
Db 738138 CGTGGAGGAAGTGTGCGCTACGAGCCCGGTCACATCGCGGAGCGGTTCCCTCG 738197

Qy 884 GGGATACGAGATCGGGGGCACTGATTAAGAGGTGATATGTTTGGTGGCGTTTGTGG 943
Db 738198 TCGACATCGACGTGCGCGGACCAAGATCCCGGTGGCGATCGCGTCACTGCGGCTG 738257

Qy 944 CATCGGCAATTCGTGATGAAGCAAGTTTGACAGACCGCACATGTTGATATCGCGGCC 1003
Db 738258 CCTCGGCGAGCGCGACCGGATGCGGTTTCAGGAAACCGGATCGACCCCGCGCC 738317

Qy 1004 ATCCCAATCCGATATTCGTTTGGCGACGATCCATTTTGTGCTTGGGCGCCCGGTTG 1063
Db 738318 CGGACACGACGATCGCGTTTGGCGAGGATATCCACCTGTGCTTGGCGCGCACTCG 738377

Qy 1064 CCCGCTTTGAAGCAAAATTCGCGTT 1088
Db 738378 CCCGATCGAAGCCGAGCGCGCT 738402

RESULT 7
US-10-680-860A-23

;; Sequence 23, Application US/10680860A
;; Publication No. US20050202528A1
;; GENERAL INFORMATION:
;; APPLICANT: BLONDELET-ROUAULT, Marie-Helene
;; APPLICANT: DOMINGUEZ, Helene
;; APPLICANT: DARBON-RONGERE, Emmanuelle
;; APPLICANT: GERBAUD, Claude
;; APPLICANT: GONDRAN, Anne
;; APPLICANT: KARRAY, Fatma
;; APPLICANT: LACROIX, Patricia
;; APPLICANT: OBSTREICHER-MERMET-BOUVIER, Nathalie
;; APPLICANT: PERNODET, Jean-Luc
;; APPLICANT: TUPHILE, Karine
;; TITLE OF INVENTION: POLYPEPTIDES INVOLVED IN THE BIOSYNTHESIS OF SPIRAMYCINS, NUCLEOT
;; TITLE OF INVENTION: SEQUENCE ENCODING THESE POLYPEPTIDES AND APPLICATIONS THEREOF
;; FILE REFERENCE: FRAV2002/0028 US NP
;; CURRENT APPLICATION NUMBER: US/10/680,860A
;; 2003-10-07
;; CURRENT FILING DATE: 2003-10-07
;; PRIOR APPLICATION NUMBER: FR 0212489
;; PRIOR FILING DATE: 2002-10-08
;; PRIOR APPLICATION NUMBER: FR 0302439
;; PRIOR FILING DATE: 2003-02-27
;; PRIOR APPLICATION NUMBER: US 60/493,490
;; PRIOR FILING DATE: 2003-08-07
;; NUMBER OF SEQ ID NOS: 161
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 23
;; LENGTH: 1212
;; TYPE: DNA
;; ORGANISM: Streptomyces ambofaciens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (1)...(1212)
US-10-680-860A-23

Query Match 11.0%; Score 130.6; DB 22; Length 1212;
Best Local Similarity 48.0%; Pred. No. 3.3e-30;
Matches 404; Conservative 0; Mismatches 434; Indels 3; Gaps 1;

Qy 251 TGGACCCGCGAAGCATACAAAATCGTTTCAGTCGTGAACAAAGCCTTTACTCCGCGC 310
Db 257 TGGACCCGCGCGCGCGCAGGACCGATGCGCAAGCTGTGTGACGAGCGCTTACCCTCCGAC 316

Qy 311 TGATGAAGCAATGGGAACCGAGAAATTCAGAAATTCACAGATGAATGATTTCAAAAAATTC 370
Db 317 GGATCGCGCGCTGGAGCCCGAGGTGCGCGATCACCGAGAGCTCTCGCAAGGTGG 376

Qy 371 AGGGGCGCATGATTTGACCTTTGTTCCAGATTTTTCATACCGCTTCCGGTTATTGTGA 430
Db 377 GGCAGCAGGACGTCGTGCGCGCTGGGTGACCTGTCTACGCGCTCGCGTCACTCGTGA 436

Qy 431 TATCTGAGCTCTGGGAGTGCCTTTCAGCGCAGATGGAACAGTTTAAAGCATGTTCTGATC 490
Db 437 TCGCGGAACCTGTGTGGGATACCCCGCGCGACCGTGACCTGTTCCGGGAGTGGGTGCA 496

Qy 491 TTCTGTGTCAGTACACCGAAGGATAAAGTGAAGAGCTGAAAAAGCCTTTTGGGAAGAAC 550
Db 497 CCCTGTGACGAACGAGGGCTGGAGTACCCGGAACCTCCCGGACAACTTCACCGAGCA 556

Qy 551 GAGATAAGTGTGAGGAAGAACTGCGCGCGTGTGTCGGGATCATAGAGAAAGCGAA 610
Db 557 TCGCGCGCGCTCAAGGAGATGACCGACTACCTCTGAAAGCAGATCCAGCCCAAGCGGG 616

Qy 611 ACAACCGGAACAGGATATTATTTCTATTTTAGTGGAGCGGAAGAACAGCGGAGAGC 670
Db 617 ACGCGCGCGCGCAGCACTTCCGTGAGCGGCTGGTTCAGGCGGAGCAGGACCGCGCGC 676

Qy 671 TGTCCGTGAAGAGCTGATTCGCTTTTGACGCTGCTGCTGGTGGCGGAAATGAAACCA 730
Db 677 TGACCGAGCTGAGATCGTCAACATCGTCGCGCTGCTCTGACGCGGCGGCGACGTCTCT 736

Qy 731 CTACAAACCTGATTTCAAATGCGATGTATAGACATATTAGAAACGCCAGCGCTTTACGAGG 790

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Db 737 CCAGCACCTGCTCAGCAACCTGTTCTCTGGTCTCGAGGAGAAACCGCAGGCGCTGGAGG 796
Qy 791 AACTCGGCAGCCATCCTGAATGATGCTCAGGAGTGGAGAAAGCCTTTCGTTTCAGAG 850
Db 797 ACCTCGGGCCGATCGCTCCCTGGTGGCGGCGCATCGAGAGACGCTTGGCTACCGCA 856
Qy 851 CGCCGGCCCGGTTTGGAGGCGCATTCGCAAGCGGATACGAGATCGGGGGCACCTTGA 910
Db 857 GCCCTTCAACAACATCTTCGGTTCGTCAAGAGGACACACCGTCTCTGGTCCGCTCA 916
Qy 911 TTAAGAAGGTGATATGTTTGGCGTTTGGCGATTCGGCAATCGTGATGAAGCAAAAGT 970
Db 917 TGAAGAAGGCCAGATGATGATCGCTGGAGCCAGTCCGCCAACCGGGACCCCGGCACT 976
Qy 971 TTGACAGACCGCACATGTTTGGATTCGCGCCG---CCTCCCAATCGGCATATGCGTTG 1027
Db 977 TCCCGACCCGACACCTTCGACATCCCGCGCTCGAGCGCACCGGACATGGGCTTCG 1036
Qy 1028 GCACGGCATCCATTTTTCCTTGGGGCCCGCTTGGCGCTTGAAGCAAAATATCGGCT 1087
Db 1037 GGCACGGCATCCACCACTGCCTGGGTGGCGCTCGCCGCTCGAGGCGCAAGTTCATGC 1096
Qy 1088 T 1088
Db 1097 T 1097

RESULT 8
US-10-680-860A-1
; Sequence 1, Application US/10690860A
; Publication No. US20050202528A1
; GENERAL INFORMATION:
; APPLICANT: BLONDELET-ROUAULT, Marie-Helene
; APPLICANT: DOMINGUEZ, Helene
; APPLICANT: DARBON-RONGERE, Emmanuelle
; APPLICANT: GERBAUD, Claude
; APPLICANT: GONDRAN, Anne
; APPLICANT: KARRAY, Fatma
; APPLICANT: LACROIX, Patricia
; APPLICANT: OESTREICHER-MERMET-BOUVIER, Nathalie
; APPLICANT: PERNODET, Jean-Luc
; APPLICANT: TUHILE, Karine
; TITLE OF INVENTION: POLYPEPTIDES INVOLVED IN THE BIOSYNTHESIS OF SPIRAMYCINS, NUCLEOT
; FILE REFERENCE: FRV2002/0028 US NP
; CURRENT APPLICATION NUMBER: US/10/680,860A
; 2003-10-07
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: FR 0212489
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: FR 0302439
; PRIOR FILING DATE: 2003-02-27
; PRIOR APPLICATION NUMBER: US 60/493,490
; PRIOR FILING DATE: 2003-08-07
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 1
; LENGTH: 30943
; TYPE: DNA
; ORGANISM: Streptomyces ambofaciens
US-10-680-860A-1

Query Match 11.0%; Score 130.6; DB 22; Length 30943;
Best Local Similarity 48.0%; Pred.No. 2.7e-29;
Matches 404; Conservative 0; Mismatches 434; Indels 3; Gaps 1;

Qy 251 TGGACCCGCGGAGCATACAAATCCGTTTCAGTCGTGAACAAAGCCTTTACTCCGCGCG 310
Db 914 TGGACCCGCGGAGCATACAAATCCGTTTCAGTCGTGAACAAAGCCTTTACTCCGCGCG 973
Qy 311 TGATGAGCAATGGGAAACCGAGAAATTCAGAAATCACATGATGATCAAAATTC 370
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Db 974 GGATCGCCCGCTGGAGCCAGGGTGCAGCGATCAACGAGGAGCTCTCTGACAAAGTGG 1033
Qy 371 AGGGCGCAGTGAGTGTTCAGCTTCTTCAAGATTTTATACCCGCTTCCGCTTATTTGA 430
Db 1034 GGCAGCAGGAGCTGCTCGACGCCGTGGTACCTGTCTTACGCGTCCGCTCATCTGTA 1093
Qy 431 TATCTGAGCTGCTGGAGTGCCTTCAGCGCAGATGGAACAGTTTAAAGCATGTGCTGATC 490
Db 1094 TCGCCGAATCTGCTGGGCATACCCGCGCGACCGTACCTGTTCCGGAGTGGGTGCGACA 1153
Qy 491 TTCTGGTCAGTACACCGAAGGATAAAGTGAAGAGCTGAAAGAGCCTTTTGGAGAGAC 550
Db 1154 CCCTGCTGACAAACGAGGGCTCGAGTACCCGAACCTCCCGGACAACTTCAACGAGAG 1213
Qy 551 GAGATAAGTGTGAGGAAGAACTGCGCGCTTTTTCGCGCATCATAGAAGAAAGCGAA 610
Db 1214 TCGCGCCGCGCTCAAGAGATGACCACTACTCTCTGAAGCAGATCCACGCCAAGCGG 1273
Qy 611 ACAACCGGAACAGGATATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTAT 670
Db 1274 ACGGCGCGCGCAGACCTGGTTCAGCGCGCTGGTCCAGGCGGAGCAGACCGCGCGCG 1333
Qy 671 TGTCCGTGAAGAGCTGATTCGCTTTTCACGCTGCTGCTGTCGCGGAAATGAAACCA 730
Db 1334 TGACCGACGTCGAGATCGTCAACATCGTTCGCGCTGCTCTGACGCGGGGACAGTCTCT 1393
Qy 731 CTACAAACCTGATTTCAAATGCGATGTACAGCATATTAGAAACGCGAGCGCTTTACGAG 790
Db 1394 CCAGCACCTGCTCAGCAACCTGTTCTGCTGCTGAGGAGAACCCGCGCGCTGGAGG 1453
Qy 791 AACTCGCGCAGCCATCTTGAATGATGCTCAGGAGTGGAGGAGGAGCCTTTCGTTTCAGAG 850
Db 1454 ACCTGCGGGCGGATCGCTCCCTGGTTCGCGCGGATCGAGGAGACGCTGCGCTACCGCA 1513
Qy 851 CGCGGGCGCGGTTTTCAGGCGCATTCGCAAGCGGATACGAGATCGGGGGGACACCTGA 910
Db 1514 GCGCGCTTCAACAACATCTTTCGCTTTCGCTCAAGGAGGACACCAACCGCTCTCGCTCA 1573
Qy 911 TTAAGAAGGTGATATGTTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCG 970
Db 1574 TGGAGAGGGCCAGATGGTGTATCGCTGAGGAGTCCGCCAACCGGACCCCGGCACT 1633
Qy 971 TTGACAGACCCGACATGTTTGAATTCGCGCGC---CATCCCAATCCGCGATATTTGGTTG 1027
Db 1634 TCCCGGACCCGACACCTTCGACATCCGCGCTCGGACGCGCACCCGCGCACATGGCCTTCG 1693
Qy 1028 GCGAGGATCCATTTTTCGCTTTCGCGCGCGCTTTCGCGCGCGCTTTCGCGCGCTTTCG 1087
Db 1694 GGCACGGCATCCACCACTGCTGGGTGGCGCGCTTTCGCGCGCGCTTTCGCGCGCTTTCG 1753
Qy 1088 T 1088
Db 1754 T 1754

RESULT 9
US-10-229-148B-1/c
; Sequence 1, Application US/10229148B
; Publication No. US20040091975A1
; GENERAL INFORMATION:
; APPLICANT: Meiji Seika Kaisha, Ltd.
; TITLE OF INVENTION: Midecamycin biosynthetic genes
; FILE REFERENCE: 138451 US
; CURRENT APPLICATION NUMBER: US/10/229,148B
; CURRENT FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 210516/2002
; PRIOR FILING DATE: 2002-07-19
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 84428
; TYPE: DNA
; ORGANISM: Streptomyces mycarofaciens
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FEATURE:
NAME/KEY: CDS
LOCATION: Complement((1)..(675))
OTHER INFORMATION: ORF42 (fragment)
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((1168)..(2202))
OTHER INFORMATION: ORF41
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((2220)..(3215))
OTHER INFORMATION: ORF40
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((3237)..(4691))
OTHER INFORMATION: ORF39
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((4695)..(5948))
OTHER INFORMATION: ORF38
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((6048)..(6629))
OTHER INFORMATION: ORF37
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((6653)..(7945))
OTHER INFORMATION: ORF36
FEATURE:
NAME/KEY: CDS
LOCATION: (8149)..(9015)
OTHER INFORMATION: ORF35
FEATURE:
NAME/KEY: CDS
LOCATION: (9012)..(9335)
OTHER INFORMATION: ORF34
FEATURE:
NAME/KEY: CDS
LOCATION: (9328)..(10458)
OTHER INFORMATION: ORF33
FEATURE:
NAME/KEY: CDS
LOCATION: (10521)..(11603)
OTHER INFORMATION: ORF32
FEATURE:
NAME/KEY: CDS
LOCATION: (11729)..(12961)
OTHER INFORMATION: ORF31
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((13016)..(14044))
OTHER INFORMATION: ORF30
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((14074)..(15096))
OTHER INFORMATION: ORF29
FEATURE:
NAME/KEY: CDS
LOCATION: (15643)..(17466)
OTHER INFORMATION: ORF28
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((17522)..(18895))
OTHER INFORMATION: ORF27
FEATURE:
NAME/KEY: CDS
LOCATION: (19063)..(20229)
OTHER INFORMATION: ORF26
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((20307)..(21743))
OTHER INFORMATION: ORF25
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((21733)..(22527))
OTHER INFORMATION: ORF24
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((22534)..(23571))
OTHER INFORMATION: ORF23
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((23555)..(24463))
OTHER INFORMATION: ORF22
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((24460)..(25650))
OTHER INFORMATION: ORF21
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((25647)..(26105))
OTHER INFORMATION: ORF20
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((26180)..(27391))
OTHER INFORMATION: ORF19
FEATURE:
NAME/KEY: CDS
LOCATION: (27937)..(28983)
OTHER INFORMATION: ORF18
FEATURE:
NAME/KEY: CDS
LOCATION: (29244)..(42779)
OTHER INFORMATION: ORF1
FEATURE:
NAME/KEY: CDS
LOCATION: (42823)..(48657)
OTHER INFORMATION: ORF2
FEATURE:
NAME/KEY: CDS
LOCATION: (48712)..(59802)
OTHER INFORMATION: ORF3
FEATURE:
NAME/KEY: CDS
LOCATION: (59850)..(64556)
OTHER INFORMATION: ORF4
FEATURE:
NAME/KEY: CDS
LOCATION: (64687)..(70365)
OTHER INFORMATION: ORF5
FEATURE:
NAME/KEY: CDS
LOCATION: (70365)..(71078)
OTHER INFORMATION: ORF6
FEATURE:
NAME/KEY: CDS
LOCATION: (71113)..(72360)
OTHER INFORMATION: ORF7
FEATURE:
NAME/KEY: CDS
LOCATION: (72400)..(73665)
OTHER INFORMATION: ORF8
FEATURE:
NAME/KEY: CDS
LOCATION: (73694)..(75043)
OTHER INFORMATION: ORF9
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((75899)..(76570))
OTHER INFORMATION: ORF10
FEATURE:
NAME/KEY: CDS
LOCATION: Complement((76602)..(77765))
OTHER INFORMATION: ORF11
FEATURE:
NAME/KEY: CDS
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; LOCATION: (78039)..(79313)
; OTHER INFORMATION: ORF12
; NAME/KEY: CDS
; LOCATION: Complement((79391)..(81052))
; OTHER INFORMATION: ORF13
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (81541)..(82356)
; OTHER INFORMATION: ORF14
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (82760)..(83362)
; OTHER INFORMATION: ORF15
; FEATURE:
; NAME/KEY: CDS
; LOCATION: Complement((83495)..(84142))
; OTHER INFORMATION: ORF16
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (84329)..(84428)
; OTHER INFORMATION: ORF17 (fragment)
US-10-229-148B-1

Query Match      10.2%; Score 121; DB 18; Length 84428;
Best Local Similarity 47.2%; Pred. No. 6e-26;
Matches 401; Conservative 0; Mismatches 445; Indels 3; Gaps 1;

QY 239 CCATCATTTAAGTACCGCCGCGAGCATACAAAATCGTTTCAGTGTGAACAAGCCT 298
DB 27147 CCATCGGCGCCCTCGACCCGCGCCGCCCGATGCGAAGCTGGTCAGCCAGGCGT 27088
QY 299 TTACTCCGCGGTGATGAAGCAATGGGAACCGAGAAATTCAGAAATACAGATGAACCTGA 358
DB 27087 TCACCCCGCGGATGGCCGCTCTGGAACCCCGCATCGGCGCGTCACTCAGGAGCTCC 27028
QY 359 TTCAAAAATTTTCAGGGCGCAGTGTGACCTTTGACCTTTTTCACGATTTTTCATACCCGCTTC 418
DB 27027 TCGATGCGGTGCGCGCCGAGGAGACCATCGACGTCTGCGCGACCTCTCTACGCGCTGC 26968
QY 419 CGGTTATTGTGATATCTGAGCTGCTGGAGTCCCTTCAGCGCAGATGNAACAGTTTAAG 478
DB 26967 CGGTATCGTATCGCCGAGCTGCTGGGCATACCGTTCGGTGACCGCGATGTGTTCCGCG 26908
QY 479 CATGCTCTGATCTCTGCTGACGTACACCGAAGGATAAAGTCAAGAAGCTGAAAAAGCT 538
DB 26907 GGTGGTGCACACCTCTCACCACGAGGCGCTGGAGTACCGGAACCTCCGGAACCT 26848
QY 539 TTTTGGAAAGACGAGATAAGTGTGAGGAAGAACTGGCCGCGTTTTTTTGC CGGCATCATAG 598
DB 26847 TCAGCGAGACGATCGCCCGCCGCTCAAGGAGATGACCGACTATCTCTGTGACACAGATCC 26788
QY 599 AGAAAGCGAAACAAACCGGAACAGGATATTTATTTTATTTAGTGAAGCGGAAGAA 658
DB 26787 ACGCAAGCGGAGCGCCCGCTGCGACGACCTGATCAGCGGCTGTGTCAGGCGGAGCAGG 26728
QY 659 CAGGCGAGAAGCTGCTCGGTGAAGAGCTGATTCGCTTTTTCACGCTGCTGTGTGGCGG 718
DB 26727 ACGGCGGACAGTCAACGACGCTGGAGATCGTCAACATCGTGCCCTGCTGTCTACCGCG 26668
QY 719 GAAATGAACCACTACAACTGTATTTTCAAATGCGATGTPACAGCATATTTAGAAACCGCAG 778
DB 26667 GCCAGTCTCGTCAAGACGCTGCTCAGCAACCTCTCTCTGTGATCTGGAGGAGAACCCGC 26608
QY 779 GGGTTTACGAGAACTGGCGACCCATCTGAACTGATGCTCAGGCTCAGGCTGAGGAAGCCT 838
DB 26607 AGGCGCTGCGGACCTGCGCGCCGACCGGAGCTGGTACCGGCTCGGTGAGGAGACAC 26548
QY 839 TCGGTTTCAGAGCGCGCGCCCGGTTTTGAAGCGCATTCGCCAAGCGGATACGGAGATCG 898
DB 26547 TCGGCTACGCGAGCCCTTCAACAACATCTTCGGCTTCTCTAAGGAGGACACCGACATCC 26488
QY 899 GGGGGCACTGTATTAAGAAAGGTGATATGGTTTTGGCGTTTGTGCGATCGGCAATCGTG 958
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DB 26487 TCGGCCCGGAATGAAGAAGGCGCAGATGGTTCATCGCTGAGGCACTCGGCCAACCGCG 26428
QY 959 ATGAAGCAAGTGTTCAGACAGCGCAGCATGTTTGATATCCGCGCGCATCCCA--ATCCGC 1015
DB 26427 ACCCGAACACTTCCCGAGCGCCGACACTTCGACATCCGACGCTCAAGCAGCTCCCGCC 26368
QY 1016 ATATTGGGTTGGCCAGGCGATCCATTTTGGCTTGGGCGCCCGCTTGGCCGTTCTTGAAG 1075
DB 26367 ACATGGGCTCGGCATCGGTATTCCACACTGCCTGGGCGCTTCTTGCACGTCAGGAAG 26308
QY 1076 CAAATATCG 1084
DB 26307 GCAAGGTGG 26299

RESULT 10
US-10-214-446-39
; Sequence 39, Application US/10214446
; Publication No. US20030180742A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, David
; APPLICANT: Burk, Mark J.
; APPLICANT: Hitchman, Tim
; APPLICANT: Pujol, Catherine
; APPLICANT: Richardson, Toby
; APPLICANT: Short, Jay M.
; TITLE OF INVENTION: P450 ENZYMES, NUCLEIC ACIDS ENCODING
; TITLE OF INVENTION: THEM AND METHODS OF MAKING AND USING THEM
; FILE REFERENCE: 09010-500001
; CURRENT APPLICATION NUMBER: US/10/214,446
; PRIOR FILING DATE: 2002-08-05
; PRIOR FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 1215
; TYPE: DNA
; ORGANISM: Bacterial
US-10-214-446-39

Query Match      10.1%; Score 120.4; DB 16; Length 1215;
Best Local Similarity 49.6%; Pred. No. 6.1e-27;
Matches 418; Conservative 0; Mismatches 391; Indels 33; Gaps 3;

QY 241 ATCATTAACATGGACCGCCCGACAGCATACAAAATTCGTTTCAGTCTGTAACAAAGCCCTTT 300
DB 277 ATCCTCAGCATGGACCGCCCGACACACCCGCTTGGCGACCCCTGGTGGCCAAAGCGTTC 336
QY 301 ACTCGGCGGTGATGAAGCAATGGAAACCGAGAAATTCAGAGAAATCACAGATGAACCTGATT 360
DB 337 ACCATGACACAGTGGAGAAAGTTGCGCCGCGGTGGGAGCTGGCGCAGAGCTGATC 396
QY 361 CAAAAATTTACAGGGCGCAGTGA---GTTTGACCTTGTTCACGATTTTTCATACCCGCTT 417
DB 397 GACAAGATGGTCGCCACACCGCGCCCGCTGCACCTGGTCGAGGAGTTTCGCGCTGCGGTG 456
QY 418 CCGGTTATTGTGATATCTGAGCTGCTGGAGTGCTTCAGGCGAGATGGAACAGTTTAAA 477
DB 457 CCGGTGCGGGGTGATCTGCCAGCTGCTCGGCGTGCCTGCGGTGCGAGGACCGTCCCGCTTCGG 516
QY 478 GCATGGTCTGATCTTCTGGTTCAGTACACCGAAGGATAAAAGTGAAGAGCTGAAAAAGCC 537
DB 517 GCGTGGAGCAGCGCGGCTGTCCACCAGTTCCCTTCAGCGCGAGGAGTTTCGACGCCAAC 576
QY 538 TTTTGGAAAGAACGAGATAAGTGTGAGAAAGAACTGGCCGCGGTTTTTTTTCGCGGATCAT 597
DB 577 C-----AGGAGAACTGCGGGGCTACATCGCGGGGTTGATC 612
QY 598 GAAGAAAGCAACAAACCGAACAGGATATTTCTATTATTTAGTGAAGCGGAAGAA 657
DB 613 GAGGATACCCGGGCGCTCGCGGTGAGGACCTGATCACCGGGCTGATCGAGGCCCGGAC 672
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; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 1
; LENGTH: 9025608
; TYPE: DNA
; ORGANISM: Streptomyces avermitilis
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4187715)
; OTHER INFORMATION: a, t, c, g, other or unknown
US-10-156-761-1

Query Match          9.9%; Score 117.8; DB 15; Length 9025608;
Best Local Similarity 47.9%; Pred. No. 1.3e-23;
Matches 406; Conservative 0; Mismatches 432; Indels 9; Gaps 2;

QY 245 TTAACATGACCGCGCGAAGCATACAAAAATCCGTTTCAGTCTGTAACAAAGCTTTTACTC 304
Db 2902578 TGACACGAGCGCGCCGACACACCGCGCTGCTGCTCGACCGCTTCACCG 2902519

QY 305 CCGCGTGATGAAGCAATGGGAACCGAGAAATTCAGAAATACACAGATGAATCAAA 364
Db 2902518 CCGCGCGCTGAGGGCTCGCGGCACACAGGTGCAGACATACGAGCGGCTCTCTCGACA 2902459

QY 365 AATTTTCAGGGCGCAGTGAGTTTGACCTTGTTACAGATTTTTCATACCGCTTCGGTTA 424
Db 2902458 CGATCGTGCCCGCGGCGAGCGGAGCTGATCGGCGACTTCGCGTTCCGCTGGCGATCA 2902399

QY 425 TTGTGATATCTGAGTCTGCTGGAGTGCCTTTCAGCGCAGATGGAACAGATTTTAAAGCATGT 484
Db 2902398 CGGTGATCTGTGAACTGTCTGGAGTGCACAGCGGACGAGACGTGTTCCGCCAGTGA 2902339

QY 485 CTGATCTTCTGTGTAGTACACCGAAGGATAAAGTGAAGAGCTGAAAGCTTTTGG 544
Db 2902338 CGAA-----GGACTTCGCGCGGTGGACGAAACACCGACTCCGCCAGCGCGCGGTG 2902285

QY 545 AAGACGAGATAAGTGTGAGGAAGAACTGCGCGCTTTTTCGCGCATCATAGAGAA 604
Db 2902284 AGCGCGCGCGGTGCGAGCTGCGCGACCTCTCGAATATCTGACCGACTGTGTGCAAGC 2902225

QY 605 ACGGAAACAAACCGGAACAGGATATTTATTTCTATTTAGTGAAGCGGAAGAAACAGGCG 664
Db 2902224 GCGGTGAGGACCGCGCGAGCGACTGGTGCAGCGCTGATCGCGCGCGGACGACGCG 2902165

QY 665 AGAAGTGTCCGGTGAAGAGCTGATTCGGTTTTTGACGCTGCTGTGTGGCGCGGAATG 724
Db 2902164 ACCGGCTGAACGAGGCGGAGTTGCTGTCCATGATGTCTGCTGTGTGCTGCGCGCTTCG 2902105

QY 725 AAACCACTACAAACCTGATTTCAAATGCGATGTACAGCATATTAGAAACGCCAGCGGTTT 784
Db 2902104 AGACGACGCTCAATCTGATCGGCAACGCGACCGCTGGCCCTGCTGGCCACCCCGACCAAC 2902045

QY 785 ACGAGGAACTGGCGAGCCATCTGAACTGATGCTCAGGCACTGGAGGAAGCTTTCGCTT 844
Db 2902044 TCGCCCTGTGTCGCGAGCACCGGAACCTGTGACTGCTGCGCTGAGAGAGATGCTGCGGT 2901985

QY 845 TCAGAGCGCGCGCGCGTTTGTAGCGCAATTGCCAAGCGGAGATAG---GAGATCGGG 901
Db 2901984 ACGACGGGTCTGTTTCAGACGCGGACGCTGGCGGTTCCCGCTCGAACCCTATCGAGGTGGCGG 2901925

QY 902 GGCACCTGATTAAGAAGGTGATATGTTTTGCGGTTTGTGCATCGGCAAACTCGTATG 961
Db 2901924 GCACGGCATTCAGAAAGGGCCACCCCGTGCTCTGTCTCCCTGGCATCGGCCAACCGGAGC 2901865

QY 962 AAGCAAAGTTTGACAGACCGCAGTGTGTTGATATCCGCGCCATCCCAATCCGCAATTG 1021
Db 2901864 GGGCGAAGTTCCCGGCACCGGACGACTTCGACGTACACCGCGCGGACCCCGCCACGTG 2901805

QY 1022 CGTTTGGCCACGCGATCCATTTTGTGCTTGGGGCCCGCTTCCCGCTTTGAAGCAATA 1081
Db 2901804 CCTTCGGGCGGGTGGCGCATCTTCTGCTCGGTGCTCCCTGCGCGCGCTGGAGGCGCGGA 2901745
```

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QY 1082 TCGCGTT 1088
Db 2901744 TCGCGTT 2901738

RESULT 13
US-10-156-761-4523
; Sequence 4523, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 4523
; LENGTH: 1215
; TYPE: DNA
; ORGANISM: Streptomyces avermitilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1215)
US-10-156-761-4523
```

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Query Match          9.7%; Score 115.4; DB 15; Length 1215;
Best Local Similarity 47.9%; Pred. No. 2.4e-25;
Matches 402; Conservative 0; Mismatches 426; Indels 11; Gaps 2;

QY 236 ATTCATCATTTAAATGACCGCGCGAAGCATACAAAATCCGTTTCAGTCTGTAACAAG 295
Db 269 ATGGGATGCTCGACTCGAGCGCGCGGACCAACCCCGATCAGCGCGCTGTGTGCAAGG 328

QY 296 CTTTACTTCCCGCTGATGAAGCAATGGGAACCGAGAAATTCAGAAATCACAGATGAAC 355
Db 329 CGTTACCGCGCGACCGTGGAGCAGCTCAAGCGTACGTGGCCCAAGCTCGCCGCGAGC 388

QY 356 TGATTTAAAAATTTACGGGCGCAGTGAAGTTTGACCTTTGTTTCAGATTTTTCATACCGC 415
Db 389 TGGTGGACCGGCTCGTCCGCGCGCGCGGGGATCTGCTCGCGATGTCGCCGAGCGCC 448

QY 416 TTCGGTTATTGTATATCTGAGCTGCTGGAGTGCCTTCAGCGCAGATGGAACAGTTTA 475
Db 449 TCCCGTGGCGCTCATCGCCGAGATGCTGGGCATCCCGAGTCCGACCGTCCCGCTCC 508

QY 476 AAGCATGCTGTGATCTTCTGTGTAGTACACCGAAGGATAAAAGTGAAGAAGCTGAAAAAG 535
Db 509 GTCCCTGTGTCG-----CGACATCTGCGGATGTACGAGCTGAACCCGCGGAG 558

QY 536 CTTTGTGGAAGAACGAGATAGTGTG--AGGAAGAACTGGCGCGTTTTTTTTCGCGGCATC 594
Db 559 GACGTGGCGGGAAGGCGGTGCGGCGTCTCGGTGAGTTCTCCGACTACCTCGCGAGCTG 618

QY 595 ATAGAGAAAGCGAACAACCCGACAGATATTATTTCTATTTTAGTCGAGCGGAA 654
Db 619 ATCCCGAGCGCCCAAGGAGCCCGCGGACGATCTCATCTCGGGGCTCATCGCGCCCAT 678

QY 655 GAAACAGCGGAGAGCTGCTCCGGTGAAGAGCTGATTCGTTTTTGACACCTGCTGCTGTG 714
Db 679 GACGAGCGGACCGCTCACCAGCAGAGATGATCTCCACTGGTCTGCTGCTCAAC 738

QY 715 GCCGAAATGAACCACTACAAAACCTGATTTCAAAATGCGATGTACAGCATATTAGAAAG 774
```

Db 739 GCGGCCACGAGGCCACCGTCAACGCCACGGTCAACGGCTGGTACGCGCTTGTTCGCAAC 798
Qy 775 CCAGCGCTTTACGAGAACTGGCAGCCATCTGAACTGATGCTCTCAGGCACTGGAGAA 834
Db 799 CCGNACAGCTGGCGCCCTGGCGCCGACCACTCGTCTGTCGCGCGCGCTGGAGAG 858
Qy 835 GCCTTGGCTTTACAGAGCCCGCGCTTTTGGAGCGCATTTGCCAAGCGCGATACGAG 894
Db 859 TTGATGCGCTACGACACCGCCCTCAGCTCTTCGAGCGCTGGTCTCGACGAGATCGAG 918
Qy 895 ATCGGGGGACCTGATTAAGAAGGTGATATGTTTGGGCTTGTGGCATCGCAAT 954
Db 919 ATCGAGCGCACGAGCGTCCGAGGGCGCGAGATCGCCATGCTTTTGGCTCCGCCAAC 978
Qy 955 CGTGATGAAGCAAAAGTTTGACAGACCGCACATGTTTGATATCCGCGCCATCCCAATCCG 1014
Db 979 CACGACCCCGAGTCTTCGGAATCCCGAGAACTCGACCTCACCGCGGAGACACCCC 1038
Qy 1015 CATATTGCTTTGGCCACCGCATCCATTTTTCCTTGGGGCCCGCTTGGCCGCTTTGA 1073
Db 1039 CACATTTCTTACGGCGGCGCATCCACTACTGCTATCGGCGCACCGCTGGCACGGATCGA 1097

RESULT 14

US-10-156-761-6226
; Sequence 6226, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 6226
; LENGTH: 1164
; TYPE: DNA
; ORGANISM: Streptomyces avermitilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1164)
US-10-156-761-6226

Query Match 9.6%; Score 114.2; DB 15; Length 1164;
Best Local Similarity 48.2%; Pred. No. 5.7e-25;
Matches 409; Conservative 0; Mismatches 413; Indels 27; Gaps 2;
Qy 240 CATCATTAACATGGACCGCGGACGACATCAAAATCGTTTCAGTTCGTGAACAAGCCTT 299
Db 231 CCTGCTCAACATGGACCGCGGACGACATCCCGCATCGGCGCTTGTGCGCGCGGCTT 290
Qy 300 TACTCCGCGCGTGATGAAGCAATGGAAACGAGAAATCAAGAAATCAAGATGAATCAT 359
Db 291 CACCTTGGCTCGCTCGAACAACTCCGCGAGCCCGTACGGAGACCGCCACCGGCTTCT 350
Qy 360 TCAAAAATTCAGGGCGCGAGTGTGACCTTGTTCACGATTTTTCATACCGCTTCC 419
Db 351 CGACGCACTCGGAGCGACCGGACGACCGACCTCATCGCTCGTACGCGCGCGCTGCC 410
Qy 420 GGTATTCTGATATCTGAGCTGCTGGAGTGCCTTCAGCGCATGGAAGATTTAAGC 479
Db 411 GATCACCGTCTCTCGGACCTGCTCGCGTGTCCGAGCAACACCGCGGGGACTTCCGGGC 470

Qy 480 ATGCTCTGATCTTTCTGCTCAGTACACCGAAGGATAAAAGTGAAGAGCTGAAAAGCCTT 539
Db 471 CTGACCGCAGCCGCTCGTCAACCCCGGACCGCGCCCGCGAGCGTCCAGGGAATCCGT 530
Qy 540 TTTGGAAGACGAGATAAGTGTGAGGAGAACTGGCGCGCTTTTTCGCGGCATCAGA 599
Db 531 CGTCTCGT-----TGCTCGGCTTCTTCAACCGGCTCTCTCGC 566
Qy 600 AGAAAGCGAAACAAACCCGGAACAGGATATATTTCTATTTTATTTAGTGAAGCGAAGAAC 659
Db 567 CGACAGCGCAAGAACCCCGGACGACCTGCTCTCGACCTCATCGCGTGCAGGAAGA 626
Qy 660 AGCGAGAACTGTCGCTGAAAGAGTGTATTCGCTTTTTCACGCTGCTGCTGTGGCGG 719
Db 627 GGGGACCGCTCACCGAGGACGAGTGTCTCTCGCTTCTCATCTCTCTTTCGCGCG 686
Qy 720 AATGAACCACTACAAACCTGATTTCAATGCGATGTACAGCATATTAGAAACGCCAGG 779
Db 687 CTACGAGAACACCGTGCACCTCATCGGGAACGCGCTACTGGCGCTGCTGCGCCATCCGA 746
Qy 780 CGTTTACGAGAACTGCGCAGCCATCTGAACTGATGCCTCAGGCACTGGAGGAAGCCTT 839
Db 747 GCAGCTCGCGCGCTCGCGAGGACCGCGCACGGCTCGCGACGCGCTCGGGAGTTGCG 806
Qy 840 GCGTTTCAGAGCGCGCGCCCGGCTT---TGAGCGCATTTGCCAAGCGGGATACGGAGAT 896
Db 807 CCGCTACGAAGGGCGCGCTGCTCGCATCCGCGCTTCCCGTGGCGGACGTCAGCAT 866
Qy 897 CGGGGGCACCTGATTAAGAAGTGTATGTTTGGCGTTTGGCGTTTGGCATCGGCAATCG 956
Db 867 CGCGGGGTCAACCGTGCCTCGCGGGGAGACCGTGTCTGCTGCTGCTGCTGCTGCTGCTG 926
Qy 957 TGATGAAGCAAAAGTTTGACAGACCGCATGTTTGATATCGCGCGCATCCCAATCCGCA 1016
Db 927 TGACCGAGCGGCTTCCCGACCCCGACCGCTCGATCTCGGCGCGACGCGCGAGGCCA 986
Qy 1017 TATTGCTTTGGCACCGCATCCATTTTTCCTTGGGGCGCGCTTGGCGCTTGGAGC 1076
Db 987 CCTCGCGCTCGGCGACCGCTCCACTACTGCTGGGCGCGCGCTGCGCGCGCTGGAGAC 1046
Qy 1077 AATATCGC 1085
Db 1047 GGAGTCCG 1055

RESULT 15

US-10-214-446-55
; Sequence 55, Application US/10214446
; Publication No. US20030180742A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, David
; APPLICANT: Burk, Mark J.
; APPLICANT: Hitchman, Tim
; APPLICANT: Fujol, Catherine
; APPLICANT: Richardson, Toby
; APPLICANT: Short, Jay M.
; TITLE OF INVENTION: P450 ENZYMES, NUCLEIC ACIDS ENCODING
; FILE REFERENCE: 09010-500001
; CURRENT APPLICATION NUMBER: US/10/214,446
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 60/309,497
; PRIOR FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 1248
; TYPE: DNA
; ORGANISM: Bacterial
US-10-214-446-55

Query Match

9.6%; Score 114.2; DB 16; Length 1248;

Best Local Similarity 46.7%; Pred. No. 6e-25;
Matches 399; Conservative 0; Mismatches 453; Indels 3; Gaps 1;

QY 230 TTGGAAATTCATCATTAACATGGACCGCCGCAAGCATACAAAATCCGTTCAAGTCGTGA 289
Db |||||
263 TCGAAGACTGGCTCGTCTTCTGGACCCGCCCGGCACACCGCGCTGCGGCCAGGTGG 322
QY 290 ACAAGCCCTTTACTCCGCGGTGATGAAGCAATGGAAACCGAGAATTCAAGAAATCACAG 349
Db |||||
323 CCCGCCGTGAGCGCTCGGCCGTACGGGCCCTTGGTCCCGCGTACGGAGATCGCG 382
QY 350 ATGAATGATTCAAAAATTCAGGGCGCAGTGAGTTTGACCTTGTTCAAGATTTTTCAT 409
Db |||||
383 AGGAATCTGTACGGCCCTCGCGCGCGCGCCCTGCTGAACTGCTGAGGGCTTCGCG 442
QY 410 ACCCGTCCCGTTATTGTGATATCTGAGCTGCTGGAGTGCTTCAGCGCAGATGGAAC 469
Db |||||
443 CCCCGTCCCGTGTGCTGCTGGCGGGCTGCTCGGGGTGACCCCGGTCGGTGGCGCGT 502
QY 470 AGTTTAAAGCATGGTCTGATCTTCTGGTCACTACACCGAAGGATAAAAGTGAAGAAGCTG 529
Db |||||
503 GGTTCGGGAGAGGGG---CTCGCCCTCAGGGTCCGGCGGGACCGGGCGACCGGT 559
QY 530 AAAAAGCCCTTTTGAAGAACAGATAAGTGTGAGGAAGAACTGGCCGCGTTTGTGCGG 589
Db |||||
560 CGCGCGCGCGCTCGCACGGGCGGACCGGCGCGCGCGCACCTTGACGCGTACTTCCGCG 619
QY 590 GCATCATAGAAAAAGCAAAACCGGAACAGGATATTATTTCTATTTAGTGGAG 649
Db |||||
620 CGGAGCTGGCGCGCGCGCTCGGAGGACCGGGGGGACCTGCTCTCGGCGCTGGCGCGG 679
QY 650 CGGAAGAAACAGCGAGAGAGCTGTCGGGTGAAGAGCTGATCCGTTTTCACGCTGCTGC 709
Db |||||
680 CGCGCGCGAGACCCCTCGCTGGGGACGACCGCGCTGACCTCGACCTCGACCTCC 739
QY 710 TGGTGGCGGAATGAACCACTACAACTGATTTCAAATCGGATGTACAGCATATTAG 769
Db |||||
740 TGACGCGCGGACGAGACGACGCGGCGCTGCTGGGCAAGGCGGTGCTCGCGCTGCTGG 799
QY 770 AAACCGCAGCGTTTACGAGGAACCTGCGCAGCCATCTGAACCTGATGCTCAGGCAGTGG 829
Db |||||
800 CGCGCGCGGAGTGGCGGAGAACTGCGCGCGGACCCGGGCGCTGTGCGGAACGCGCGTGG 859
QY 830 AGGAAGCCCTTGGCTTTCAGAGCGCGCGCCCGGTTTGAGGCGCATTGCCAAAGCGGATA 889
Db |||||
860 ACGAGTCTCTGCGCCACGACCCACCCGCTGAGATGGTCAAGCGGTGGGCGCGCGGACG 919
QY 890 CGGAGATCGGGGGCACCTGATTAAAGAGGTGATATGGTTTGGCGTTTGTGGCATCGG 949
Db |||||
920 CGGAGCTCGCGCGCGAGCGGTCCGCGGGGCGACCGGGTCCAGCTGGTGTGGGTTCGG 979
QY 950 CAAATCGTGAAGCAAAAGTTTGACAGACCGCATGTTTGATATCCGCGCCATCCCA 1009
Db |||||
980 CCCACCGCACCGCGCCCGCTTCCCGGACCCCGACCGGCTGGACATCCGCGCGGACACCG 1039
QY 1010 ATCCGCATATTGGTTTGGCCACGGCATCCATTTTGGCTTGGGGCCCGCTTGGCCGTC 1069
Db |||||
1040 GCGGCACTGCGGTTCTGGGATCCACTACTGCTGGGGGCGGCGCTGGCACGG 1099
QY 1070 TTGAAGCAAAATCG 1084
Db |||||
1100 CGGAGCGGAGATCG 1114

Search completed: October 18, 2005, 17:19:55
Job time : 1016 secs

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	139.2	11.7	8478	3	US-08-676-818-1		Sequence 1, Appli
2	139.2	11.7	8478	3	US-09-407-549-1		Sequence 1, Appli
C 3	118.2	9.9	4403765	3	US-09-103-840A-2		Sequence 2, Appli
C 4	118.2	9.9	4411529	3	US-09-103-840A-1		Sequence 1, Appli
C 5	116.4	9.8	4403765	3	US-09-103-840A-2		Sequence 2, Appli
6	116.4	9.8	4411529	3	US-09-103-840A-1		Sequence 1, Appli
7	111.4	9.4	1194	3	US-08-765-907A-9		Sequence 9, Appli
8	111.4	9.4	1194	4	US-09-987-614A-9		Sequence 9, Appli
9	111.4	9.4	4496	3	US-08-765-907A-6		Sequence 6, Appli
10	111.4	9.4	4496	4	US-09-987-614A-6		Sequence 6, Appli
11	109.8	9.2	1314	4	US-09-252-991A-1265		Sequence 1265, Ap
C 12	109.8	9.2	1482	4	US-09-252-991A-1338		Sequence 1338, Ap
13	109.8	9.2	1671	4	US-09-252-991A-1222		Sequence 1222, Ap
14	103.6	8.7	6085	3	US-09-029-603-4		Sequence 4, Appli
C 15	102.6	8.6	28320	4	US-09-902-540-1222		Sequence 1222, Ap
16	92.8	7.8	1366	4	US-09-902-540-3244		Sequence 3244, Ap
C 17	92.8	7.8	14331	4	US-09-902-540-1149		Sequence 1149, Ap
18	88.8	7.5	1233	4	US-09-266-965-24		Sequence 24, Appl
19	88.8	7.5	12349	4	US-09-266-965-74		Sequence 74, Appl
20	88.8	7.5	18331	4	US-09-266-965-96		Sequence 96, Appl
21	87.6	7.4	71989	3	US-09-443-501A-2		Sequence 2, Appli
C 22	86.8	7.3	536165	4	US-09-214-808-1		Sequence 1, Appli
23	85.8	7.2	1221	6	5212296-16		Patent No. 5212296
24	85.8	7.2	1221	6	5212296-16		Patent No. 5212296
25	85.8	7.2	1879	6	5212296-5		Patent No. 5212296
26	85.8	7.2	1879	6	5212296-5		Patent No. 5212296
27	84.4	7.1	1324	4	US-09-266-965-22		Sequence 22, Appli

Best Local Similarity 50.4%; Pred. No. 2.7e-36; Mismatches 408; Indels 12; Gaps 3;
Matches 426; Conservative 0;

QY 252 GGACCGCGGAGCATACAAAATCGGTCAGTCGTGAACAAGCCTTTACTCCGCGGT 311
Db 5735 GAACAGCCTGATATAGACGATTCGGGACGCTTCCACGCGAGCGTTACCGCGAGAAC 5794
QY 312 GATGAAGCAATGGGAACGAGAAATCAAGAAATCAAGAAATCAAGAAATCAAGAAATTTCA 371
Db 5795 GACAGAGATATACAGCGGTATATCATTTGAATCTGCCATCATTTGCTTGATCAAGTGA 5854
QY 372 GGGGCGCAGTGTGACCTTTGTCACGATTTTTCATACCGCTTCGGTTTATTTGAT 431
Db 5855 AGGTAAATAAAGATGAGGCTCATTTCCGACTTGTCTTCTTTAGCAAGTTTGTGAT 5914
QY 432 ATCTGAGCTGCTGGGAGTGCCTTCAGCGCAGATGGAACAGTTTAAAGCATGCTGATCT 491
Db 5915 AGCTAACATATAGGTGTACCGGAGGAAGATAGGAGCAATTAAGGAGTGGGCTCGAG 5974
QY 492 TCTGGTCAGTACACCGAAGGATATAAGTGAAGAGCTGAAAAGCCTTTTGGAAAGACG 551
Db 5975 TCTCAT-----TCAACAGATGATTTTACCGCTCAAGAAAGGATTAACAGAGGCA 6027
QY 552 AGATAAGTGTGAGGAAGAACTCGCGCGCTTTTTCGCGCATCATAGAAGAAAGCGAAA 611
Db 6028 ATATTATGGCTGTCAGGCTATG--GCATATTTCAAAGAGCTGATTTCAAAGAGAAAACG 6085
QY 612 CAACCGGAACAGGATATTTCTATTTTCTAGTGAAGCGGAAGAAACAGGCGAGAGCT 671
Db 6086 CCACCTCAACAGGATATGATCAGCATGCTCTTTGAAGGGGAGAGAAA---AGGATAAGCT 6142
QY 672 GTCCGGTGAAGAGCTGATTTCCGTTTTCACGCTGCTGCTGGCGGGAATGAACACAC 731
Db 6143 GACGGAAGAGGCGGCGCATCTACGTGCATATTTGCTGGCGATCGCGGACATGACACAC 6202
QY 732 TACAACCTGATTTCAAATGCGATGTACAGCATATTTAGAAACGCGAGCGTTTACGAGA 791
Db 6203 GGTCAATCTCATCAGCAATTCAGTCTCTTGTCTGCTGCAGCATCCAGAACAGCTTTTGA 6262
QY 792 ACTGGCAGCCATCTGACTGATGCCTCAGCAGTGGGAGGAGCCTTTCGTTTTCAGAGC 851
Db 6263 ACTGAGAGAAATCCAGATCTTTATTTGGTACCGCAGTCGAGGAATGTTTACGCTATGAAG 6322
QY 852 GCGGCGCCCGGTTTGGAGCGCATTTGCCAAGCGGATACGAGATCGGGGGCACCTGAT 911
Db 6323 CCCACGCAATGACAGCGCAGAGTTGCGTCAGAGGATATTGACATCTGCGGGGTGACGAT 6382
QY 912 TAAAGAGGTGATGTTTGGCGTTTGTGGCATCGGCAATTCGATGAAGCAAGTT 971
Db 6383 CGGTCAAGGAGAACAGTCTATCTTTTGTAGGAGCGGCTAATCGAGACCTTAGCATATT 6442
QY 972 TGACAGACCGCACATGTTTGATATCCGCGCCATCCCATCCGATATTGCGTTTGGCCA 1031
Db 6443 CACGAACCCCGATGCTTCGATATTACGAGAAAGTCTTAATCCGATCTTTTCATTCGGCA 6502
QY 1032 CGGCATCCATTTTGGCTTGGGCGCCCGCTTGGCGTCTTTGAAGCAAAATATCGCGTTAC 1091
Db 6503 TGGCATCATGTTTGTCTTAGGGTCTCTGCTGCGACGATTAGAAGCGCAATTCGATTA 6562
QY 1092 GTCTTT 1097
Db 6563 CACTCT 6568

RESULT 2

US-09-407-549-1
; Sequence 1, Application US/09407549
; Patent No. 6303377
; GENERAL INFORMATION:
; APPLICANT: Bower, Stanley Grant
; APPLICANT: Perkins, John B.
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Pero, Janice G.

; TITLE OF INVENTION: BIOTIN BIOSYNTHESIS IN BACILLUS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: Wordperfect (Version 5.1)
; CURRENT APPLICATION DATA: US/09/407,549
; APPLICATION NUMBER: US/09/407,549
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/239,430
; FILING DATE: May 6, 1994
; APPLICATION NUMBER: 08/084,709
; FILING DATE: June 25, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Freeman, John W.
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 04599/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8478
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-09-407-549-1

Query Match 11.7%; Score 139.2; DB 3; Length 8478;

Best Local Similarity 50.4%; Pred. No. 2.7e-36;

Matches 426; Conservative 0; Mismatches 408; Indels 12; Gaps 3;

QY 252 GGACCGCGGAGCATACAAAATCGGTCAGTCGTGAACAAGCCTTTACTCCGCGGT 311
Db 5735 GAACAGCCTGATATAGACGATTCGGGACGCTTCCACGCGAGCGTTACCGCGAGAAC 5794
QY 312 GATGAAGCAATGGGAACGAGAAATCAAGAAATCAAGATGAATCAAGAAATTTCA 371
Db 5795 GACAGAGATTTATCAGCGGTATATCATTTGAACACTGTCCATCATTTGCTTGATCAAGTGA 5854
QY 372 GGGGCGCAGTGTGACCTTTGTCAGATTTTTCATACCGCTTCGGTTTATTTGAT 431
Db 5855 AGGTAAATAAAGATGAGGCTCATTTCCGACTTGTCTTCTTTAGCAAGTTTGTGAT 5914
QY 432 ATCTGAGCTGCTGGGAGTGCCTTCAGCGCAGATGGAACAGTTTAAAGCATGCTGATCT 491
Db 5915 AGCTAACATATAGGTGTACCGGAGGAAGATAGGAGCAATTAAGGAGTGGGCTCGAG 5974
QY 492 TCTGGTCAGTACACCGAAGGATATAAGTGAAGAGCTGAAAAGCCTTTTGGAAAGACG 551
Db 5975 TCTCAT-----TCAACAGATGATTTTACCGCTCAAGAAAGCAATTAACAGAGGCA 6027
QY 552 AGATAAGTGTGAGGAGAACTGGCGCGGTTTTTTCGCGCATCATAGAAGAAAGCGAAA 611
Db 6028 ATATTATGGCTGTGAGGCTATG--GCATATTTCAAAGAGCTGATTTCAAAGAGAAAACG 6085
QY 612 CAACCGGAACAGGATATTTCTATTTTCTAGTGAAGCGGAAGAAACAGGCGAGAGCT 671
Db 6086 CCACCTCAACAGGATATGATCAGCATGCTCTTTGAAGGGGAGAGAAA---AGGATAAGCT 6142
QY 672 GTCCGGTGAAGAGCTGATTTCCGTTTTCACGCTGCTGCTGGCGGGAATGAACACAC 731

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Db 6143 GACGGAAGAGGCGGCATCTACGTGCATATTGCTGGCGATCGCCGACATGAGACAAC 6202
Qy 732 TACAAACCTGATTTCAAAATGCGATGACAGCATATTAGAAACGCGCGGTTTACGAGGA 791
Db 6203 GGTCAATCTCATCAGCAATTCAGTCCCTTGTCTGCTGCAGCATCCAGAACAGCTTTTGA 6262
Qy 792 ACTGGCAGCCATCTCTGAACCTGATGCTTCAGGCAAGTGGAGAAAGCCCTTTCAGAGC 851
Db 6263 ACTGAGAGAAATCCAGATCTTATTTGGTACCGCAGTCGAGGAATGTTTACGCTATGAA 6322
Qy 852 GCGGCCCCGCTTTGAGGCGCATTCGCAACGCGGATACGAGATCGGGGGCACCTGAT 911
Db 6323 CCCACGCAAAATGACAGCAGATTTGCGCTCAGAGGATATTGACATCTGCGGGGTGACG 6382
Qy 912 TAAAGAGGTGATATGTTTGGGCTTTGTGGCATCGGCAATCGTGATGAAGCAAGTT 971
Db 6383 CCGTCNAGGAGACAGATCTATCTTTGTTAGGAGCGGCTAATCGAGACCCTAGCATATT 6442
Qy 972 TGACAGACCGCACATGTTTGTATATCCGCGCCATCCCAATCCGATATTCGGTTTGGCCA 1031
Db 6443 CACGAACCCGATGCTTCGATATTACGAGAAGTCTTAATCCGCATCTTTCAATCGGCA 6502
Qy 1032 CGGCATCCATTTTGCCTTGGGCGCCGCTTGGCGCTTGAAGCAATATCGCGTTAAC 1091
Db 6503 TGGCCATCATGTTTGTCTTAGGGTCTCGCTGGCAGATTAGAAGCGCAATTTGCGATTAA 6562
Qy 1092 GTCTTT 1097
Db 6563 CACTCT 6568
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RESULT 3

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US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2
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Query Match 9.9%; Score 118.2; DB 3; Length 4403765;
Best Local Similarity 48.1%; Pred. No. 5.1e-27;
Matches 401; Conservative 0; Mismatches 423; Indels 9; Gaps 2;

Qy 241 ATCATTAACATGAGCCCGGAGCATACAAAAATCCCTTCAGTCGTGAACAAAGCCCTTT 300
Db 3948025 ATGATCGACATGGACATCCCGCATCTGTTGGCGCAAGCTGGTTAAACGCGGCTTC 3947966
Qy 301 ACTCCGCGGTGAAGCAATGGAAACCGAGAAATTAAGAAATCACAGATGAAGTGAAT 360
Db 3947965 ACCGCCAAGCGGTGAAGCAAGAGGCGTGTGATTCGCGGCTGTGTGACACCTGTATC 3947906
Qy 361 CAAAAATTCAGGGCGGAGTGGTTCACCTTGTTCAGTATTTTCATATCCCGCTTCG 420
Db 3947905 GACCGCGTGTGCAACCGCGGAGTGTGACTTCGTGGCGGACCTGGCGCGCGCTACCG 3947846
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Qy 421 GTTATTGTGATATCTGAGCTGCTGGAGAGTGCCTTCAGCGCAGATGGAAACATGTTTAAAGCA 480
Db 3947845 ATGCGCGTGTATCGCGCACATGCTCGGGTGCCTCCAGAGCAGCGGCATGTTCTTCGCG 3947786
Qy 481 TGGTCTGTATCTTCTGGTCACTACACCGAAGGATAAAGTCAAGAGCTGAAGAAAGCCCTTT 540
Db 3947785 TGGTCCAGCATCTGGTGA-CATTCTCAGTTCGATGTGTCTCAAGAGATTTCCAGAT 3947727
Qy 541 TTGGAAGAACAGATTAAGTGTGAGGAAGAACTGGCCCGCTTTTTCGCGGCATCATAGAA 600
Db 3947726 CACCATGGACGCTTCGCGCCCTACACGACTTCACCCGG-----GCCACCATTTGCG 3947675
Qy 601 GAAAAGGAAACAAACCGGAAACAGGATATTATTTCATTATTTAGTGAAGCGGAAGAAACA 660
Db 3947674 GCACGCGCAGCGGACCCACCGACGCTGCTGAGCTGTGTTGAGTTCGGAAGTTGAC 3947615
Qy 661 GCGGAGAAGCTGTCCGCTGAAGAGCTGATTCGCTTTTTCACGCTGCTGCTGGTGGCCGGA 720
Db 3947614 GCGGAGCGCTAAGCGACGACGAGCTGTCATGAGAGCGTCTGATCCCTGATCGCGGC 3947555
Qy 721 AATGAACACCACTACAAACCTGATTTCAAATGCGATGTACAGCATATTAGAAACGCCAGGC 780
Db 3947554 GACGAGACCAACCGGCATACCTTGAGCGGTGGTACCGAGCAGCTGCTCGCAACCGTAC 3947495
Qy 781 GTTTACGAGGAACCTGCGCAGCCATCTGGAACCTGATGCTCAGGAGTGGAGGAAGCCTTG 840
Db 3947494 CAGTGGACCTGCTGACGCGCACCCCTGCTGTGTCGCCGGGCCATCGAGGAGATGCTA 3947435
Qy 841 CGTTTCAGAGCGCGCCCGCTTTTTCAGGCGCATTCGCAAGCGGATACGGAGATCGGG 900
Db 3947434 CGTTGGACCCCGCCCGGTAAAGAACATGTGCGGGTGTGTACCGCGGATACCGAGTTTAC 3947375
Qy 901 GGCACCTGATTAAGAAAGTGATATGTTTGGCGTTTGTGGCATCGGCAAAATCGTGAT 960
Db 3947374 GGCACGCGTGTGTGCGCGGAGAGATGATGCTGCTCTTCGAGTCCGCGAACTTCGAC 3947315
Qy 961 GAAGCAAAAGTTTGACAGACCGGCACATGTTTGTATATCCGCGCCATCCCAATCCGCATTT 1020
Db 3947314 GAGCGCGTTCCTGTGAACCGGAAAGTTTGTATGTTTCAGCGAAATCCAAACAGCACTTG 3947255
Qy 1021 GCGTTGGCCACGCGATCCATTTTGCCTTGGGCGCCCGCTTGCCTCTTGA 1073
Db 3947254 GCGTTTGGCTTCGCGCAGCATTTCTGCTGGGCAATCAGCTGGCCCGGTTGGA 3947202
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RESULT 4

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US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1
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Query Match 9.9%; Score 118.2; DB 3; Length 4411529;
Best Local Similarity 48.1%; Pred. No. 5.1e-27;
Matches 401; Conservative 0; Mismatches 423; Indels 9; Gaps 2;
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QY 241 ATCATTAATGAGCCGCGGAGCATACAAAAATCCGTTTCAGTCGTGAAACAAAGCCTTT 300
Db 3955295 ATGATCGACATGACGATCCCGCACATCTGTTGCGCGCAAGCTGTTAAACGCGGCTTC 3955236
QY 301 ACTCGCGGCGTATGAAGCAATGGGAACCGAGAAATTAAGAAATCACAGATGAATGATT 360
Db 3955235 ACCCGAAGCGGCTGAAGACAAAGAGGCGTGCATTTGCGCGCTGTGTACACCCCTGATC 3955176
QY 361 CAAAAAATTCAGGGCGGAGTCAGTTTACCTTTGTCAGATTTTTCATACCCGCTTCGG 420
Db 3955175 GACGCGGTGTGGAACCGCGCGAGTGTGACTTCGTGCGGAGCCTGGCGCGCGCTACCG 3955116
QY 421 GTTATTGTGATATCTGAGCTGCTGGGAGTGCCCTTCAGCGCAGATGGAACAGTTTAAAGCA 480
Db 3955115 ATGGCGGTGATCGGCGACATGCTCGGGGTGCGTCCAGAGCAGCGGACATGTTCTTCGG 3955056
QY 481 TGGTCTGATCTTCGTGTCAGTACACCGAAGGATTAAGATGAAGAGCTGAAAAAGCCTTT 540
Db 3955055 TGGTCCGACGATCTGGTGA-CAATCTCAGTTTCGATGTGTCTCAAGAGGATTTCCAGAT 3954997
QY 541 TTGGAAGAACGAGATAAGTGTGAGGAAGAACTGGCGCGTCTTTTTCGCGGCATATAGAA 600
Db 3954996 CACCATGACGCTTCGCGGCGCTACACGACTTTCACCGG-----GCCACCATTCGG 3954945
QY 601 GAAAAAGCGAAACAAACCGGAAACAGGATATTATTTCTATTTAGTGAAGCGGAAGAAACA 660
Db 3954944 GCACGGGAGCGGACCCACCGACACCTGGTCAGCGTCTGTTGAGTTCGGAAGTTGAC 3954885
QY 661 GCGGAGAGCTGCTCGGTTGAAGAGCTGATTCGTTTTGACGCTGCTGCTGTGTGCGCGGA 720
Db 3954884 GCGGAGCGGCTAAGCGGACGACGAGCTGGTTCATGGAGACGCTCTGATCTGATCGGCGGC 3954825
QY 721 AATGAAACCACTACAAACCTGATTTCAAATGCGATGTACAGCATATTAGAAACGCCAGGC 780
Db 3954824 GACGAGACACCGGCGATACCTTGAGCGGTGTGTACCGAGAGCTGCTGGCAACCGTGAC 3954765
QY 781 GTTTACGAGGAACTCGCAGCCATCCTGAACTGATGCTCTCAGGCGAGTGAGGAAGCCTTG 840
Db 3954764 CAGTGGGACCTGCTGACGCGCACCGTCTGTTGCTGCCGGGCGCATCGAGGAGTGCTA 3954705
QY 841 CGTTTCAGAGCGCGCGCGCGCTTTTGGGCGCATTTGCGGCGATGCGGAGATCGGG 900
Db 3954704 CGTTGGACCGCGCGCGGTAAAGAACATGTGCGGGGTGTTGACCGCGGATACCGAGTTTCA 3954645
QY 901 GGGCACCTGATTAAGAGAGTGCATATGTTTTGGGCTTTTGTGCGCATCGCAATCGTGAT 960
Db 3954644 GGCACGGCTGTTGTGTCGCGCGAGAGATGATGCTGCTCTTCGATGTCGCGAACTTCGAC 3954585
QY 961 GAAGCAAAAGTTTGACAGACCGCACATGTTTGTATATCCGCGCCATCCCAATCCGCATATT 1020
Db 3954584 GAGCGGTTTTCTGTGMAACCGGAAAGTTTGTATGTTTCAGCGAAATCCAAACAGCCACTG 3954525
QY 1021 GCGTTTGGCAGCGCATCATTGTTTGGCTTGGGGCGCGCTTGGCGGCTTTGA 1073
Db 3954524 GCGTTTGGCTTCGCGACGCAATTTCTGCTGGGCAATCAGTGGCGCGGTTTGA 3954472
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RESULT 5

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US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.1
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; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match 9.8%; Score 116.4; DB 3; Length 4403765;
Best Local Similarity 55.4%; Pred. No. 2.2e-26;
Matches 225; Conservative 0; Mismatches 181; Indels 0; Gaps 0;

QY 669 GCTGTCGGTGAAGAGCTGATTCCGTTTTTGGCACGCTGCTGCTGGCGCGGAAATGAAC 728
Db 874269 GCTGTCGACGCCGAACCTGTACCTGTTTCCATCTACTGTTTACGCGCGCGGGAAC 874328
QY 729 CACTACAAACCTGATTTCAAATGCGATGTACAGCATATTAGAAACGCCAGCGGTTTACGA 788
Db 874329 CACCGGTAACCTCATTGCCGCGGCTGCTGGCGTGCCGAGAAACCTGACCAACTGCA 874388
QY 789 GGAACCTGGCAGCATCTCTGAACTGATGCTCAGCAGTGTGAGGAAGCTTGGTTTCAG 848
Db 874389 AACGCTGCGAAGCGATTTTGTAGTTTGTGCCGACTGCGATCGAAGAGATCGTGAGGTGAC 874448
QY 849 AGCCCGCGCCCGGTTTGTAGCGCATTTGCCAAGCGGATACGGAGATCGGGGGGCACCT 908
Db 874449 GTCGCGGTACCATCGAAGCGCGCACGGCTCCCGTGGGTGCGGTCAGCTGGCGGCGCAGCC 874508
QY 909 GATTAAGAAAGGTGATATGTTTTGGCGTTTTTGTGGCATTCGGCAATCGTGATGAAGCAA 968
Db 874509 GATCGAGCGGGTCAGAAGGTTGTGTGGAGGGCTCGGCCAACCGTGATCCAGCGT 874568
QY 969 GTTTGACAGACCGCACATGTTTGTATATCCGCGCGCATCCCAATCCGCATATTGGTTGG 1028
Db 874569 GTTGCACGCGCGACGAGTTTCGATATCACCCGAAACCCCAATCCGCACTGGGTTTCGG 874628
QY 1029 CCACGGCATCCATTTTGGCTTGGGCGCGCGCTTGGCGCTTCTGAA 1074
Db 874629 TCAGGGGTGCATATTGCTTGGGCGGCAATCTGCTCGGCTGGAA 874674
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RESULT 6

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US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1
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Query Match 9.8%; Score 116.4; DB 3; Length 4411529;
Best Local Similarity 55.4%; Pred. No. 2.2e-26;
Matches 225; Conservative 0; Mismatches 181; Indels 0; Gaps 0;

QY 669 GCTGTCGGTGAAGAGCTGATTCCGTTTTTGGCACGCTGCTGCTGGCGCGGAAATGAAC 728
Db 872139 GCTGTCGACGCCGAACCTGTACCTGTTTCCATCTACTGTTTCAGCGCGCGGGAAC 872198
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QY 729 CACTACAAACCTGATTTCAATGCGATGATACAGCATATTAGAAACGCCAGGCGTTTACGA 788
DB 872199 CACCGGTAACTCCATTGCGCGGCGCTGCTGGCGCTGGCCGAGAACCTGACCAACTGCA 872258
QY 789 GGAAGTGGCGAGCCATCTGAACTGATCGCTCAGGAGTGAAGAGCCCTTGGCTTTAG 848
DB 872259 AACGCTGGAAAGCGATTTTGAAGTTGTTGCCGACTGCGATCGAAGAGATCGTGAAGTGGAC 872318
QY 849 AGCGCGCGCCCGGTTTGGAGCGCATTTGCCAAGCGGATACGGAGATCGGGGGGCGACCT 908
DB 872319 GTGCGCGTCAACATCGAAGCGGCGACCGGCTCCGCTGGGTGCGGTGCGGCGCCAGCC 872378
QY 909 GATTAAGAAGTGAATGTTTGGCGTTTGGCGTATCGCAATCGTGAAGCAAA 968
DB 872379 GATCGAGCGGCTCAGAAAGTTTGGTGTGGAGGGGCTCGGCCAACCGTATCCAGCGT 872438
QY 969 GTTTCACAGACCGCATGTTTGTATATCGGCGGCGCATCCCAATCGCATATGCGTTTGG 1028
DB 872439 GTTCAGCGCGGAGCGAGTTTGGATATCACCGAAACCCCAATCGCACCTGGGTTTCGG 872498
QY 1029 CCACGGCATCAATTTTTCGCTTGGGGCGCGCTTGGCGGCTCTTGAA 1074
DB 872499 TCAGGGGTGCACTATTGCTTGGCGGCGCAATCTGGCTCGGCTGGAA 872544

RESULT 7
US-08-765-907A-9
; Sequence 9, Application US/08765907A
; Patent No. 6352839
; GENERAL INFORMATION:
; APPLICANT: BLANC, Veronique
; APPLICANT: THIBAUT, Denis
; APPLICANT: BAWAS-JACQUES, Nathalie
; APPLICANT: BLANCHE, Francis
; APPLICANT: COUZET, Joel
; APPLICANT: BARRIERE, Jean-Claude
; APPLICANT: DEBUSSCHE, Laurent
; APPLICANT: FAMECHON, Alain
; APPLICANT: PARIS, Jean-Marc
; APPLICANT: DUTRUC-ROSSET, Gilles
; TITLE OF INVENTION: Streptogramins And Method For Preparing Same By
; FILE REFERENCE: Streptogramin genes
; CURRENT APPLICATION NUMBER: US/08/765,907A
; PRIOR FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 1194
; TYPE: DNA
; ORGANISM: Streptomyces pristinaespiralis
US-08-765-907A-9

Query Match 9.4%; Score 111.4; DB 3; Length 1194;
Best Local Similarity 48.5%; Pred. No. 2.7e-27;
Matches 415; Conservative 0; Mismatches 416; Indels 24; Gaps 3;
QY 249 CATGACCCGCGAGCATACAAAATCCGTTAGTCGTGAAACAAAGCCCTTACTCCGCG 308
DB 228 CATGACCCGCGAGTGCACCGGACCGGCTGCTGAGCAGGCGCTTCAACCCCGCG 287
QY 309 CGTGATGAAGCAATGGGAACCGAGAAATTCAGAAATACAGATGAATTCAGAAATTT 368
DB 288 CACCGTCCCGACCTCGAACCCAGCGGTACCGAACTGGCCGGGCACTGCTCGAGCGGT 347
QY 369 TCAGGGCGCGAGTGTGACCTTGTTCAGATTTTTCATACCGCGCTTCCGGTTATGTT 428
DB 348 CGACGGCGACAC---CGTTTCGACCTCGTCGCGGACTTCGCTTACCGCTGCGCGGTGATGCT 404
QY 429 GATATCTAGCTGCTGGAGTGGCTTTCAGCGCAGATGGAACAGTTTAAAGCATGCTGTA 488
DB 405 GATCGCCGAATCTCTTCGCGGCTGGCCGCGCGACCGCACCTGTTCCGCTCTCTGTCGGA 464

QY 489 TCCTTCTGTCAGTACACCG-----AAGGATAAAAGTGAAGAGCTGA 530
DB 465 CCGGATCTCTCAGATGAGGTTCGCGGACCCGCGGACATGCAAGTTTCGCGCAGCAGCGCA 524
QY 531 AAAAGCCCTTTTGGAGAAACGAGTAAAGTGTGAGGAAGAACTGGCCCGGTTTTTTTGGCGG 590
DB 525 CGAGGACTACCAACCGCTCTGTCAAAAGAACCCATTCGCGGCGCATGACGCGCTACCTCCACGA 584
QY 591 CATCATAGAAGAAAGCGAAACAAACCGGAACAGGATATTATTTCTATTATTTTAGTGGAGAGC 650
DB 585 CCAGTCAACGACCG 644
QY 651 GGAAGAAACAGGCGAGAGAGCTGTCGCTGAGAGAGCTGATTCGCTTTTTCAGCGCTGCTGCT 710
DB 645 CCGGCTGAGAGCGGCGAAGCACTCACCGACGAGCAGATCGTCGAATTCGCGGCGCTGCTGCT 704
QY 711 GGTGCGCGGAATGAACCACTACAAACCTGATTTCAATGCGATGTACAGCATATTAGA 770
DB 705 GATGGCGGCGACGCTCTCCACCTCATGCTGCTCGGCAACACCGTGTGTCCTGAAAGGA 764
QY 771 AACGCCAGGCGTTTACGAGGAACTGCGCAGCACTCTGAACTGATGCTCAGGCGAGTGA 830
DB 765 CCACCCCGCGCGAGGCG 824
QY 831 GGAAGCCTTGGCTTTCAGAGCG 890
DB 825 AGAAGTACTGCGGCTGCG 884
QY 891 GGAGATCGGGGGGACCTGATTTAAAGAAAGTGTATGTTTGGCGTTTGGCGATCGGC 950
DB 885 CGTCTCGCGGCGACCAACCATCCCGCGGACGATGTCGTCGCTCCCTCCCTGCTGTCGCG 944
QY 951 AAATCGTGATGAAGCAAGTTTTCAGACAGCGCACATGTTTGATATCGCGCGCATCCCAA 1010
DB 945 CAACACGACGAAACAGGTCTTACCAGCCCGCGACCGCTGCACTCGCGCGCGAGGCG-- 1002
QY 1011 TCGCATATTGCGTTTGGCCACGCGCATTTTTCCTTTGGCGCGCGCGCGCGCGCGCGCT 1070
DB 1003 -CGCCAGATCGCTTTCGCGCACGCGCATCTACTGCTGGGCGCGCGCGCTCGCGCGCGCT 1061
QY 1071 TGAAGCAAAATATCGC 1085
DB 1062 GGAGGCGCGCATCGC 1076

RESULT 8
US-09-987-614A-9
; Sequence 9, Application US/09987614A
; Patent No. 6833382
; GENERAL INFORMATION:
; APPLICANT: BLANC, Veronique
; APPLICANT: THIBAUT, Denis
; APPLICANT: BAWAS-JACQUES, Nathalie
; APPLICANT: BLANCHE, Francis
; APPLICANT: COUZET, Joel
; APPLICANT: BARRIERE, Jean-Claude
; APPLICANT: DEBUSSCHE, Laurent
; APPLICANT: FAMECHON, Alain
; APPLICANT: PARIS, Jean-Marc
; APPLICANT: DUTRUC-ROSSET, Gilles
; TITLE OF INVENTION: Streptogramins And Method For Preparing Same By
; FILE REFERENCE: Streptogramin genes
; CURRENT APPLICATION NUMBER: US/09/987,614A
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US/08/765,907
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 1194
; TYPE: DNA

; ORGANISM: Streptomyces pristinaespiralis
US-09-987-614A-9

```
Query Match      9.4%; Score 111.4; DB 4; Length 1194;
Best Local Similarity 48.5%; Pred. No. 2.7e-27;
Matches 415; Conservative 0; Mismatches 416; Indels 24; Gaps 3;

QY 249 CATGACCCGCGGAAGCATACAAAATCCGTTTCAGTCGTGAACAAGCCTTTACTCCGCG 308
DB 228 CATGACCCGCGGATGCACCGCACCTTGGCCGCTGGTTCAGCAGGCTTCACCCCGCG 287
QY 309 COTGATGAAGCAATGGGAACCGAGAAATTCAGAAATCAAGATGAAGTATCAAAAATT 368
DB 288 CACCGTCGCGGACCTCGAACCAACCGGCTCACCGAACTGGCGCGGCAACTGCTCGACGCGT 347
QY 369 TCAGGGGCGCAGTGTGACTTGTTCACCATTTTTCACATCCGCTTCGCGTTATTGT 428
DB 348 CGACGGCGACA---CGTTCGACCTCGTTCGCCACTTCGCTTACCGCTGCGCGTATCGT 404
QY 429 GATATCTGAGCTGCTGGGAGTGCCTTCAGCGCAGATGGAACAGTTTAAAGCATGCTCTGA 488
DB 405 GATCGCGGAACCTCTCGGCTGCGCCGCGCCGACCGCACCTGTTCCGCTCTCTGTCCGA 464
QY 489 TCTTCTGTGCTACACCG-----AAGGATAAAAGTGAAGAAGCTGA 530
DB 465 CCGGATGCTGCAGATGCAGGTGCGCGACCCGCGGACATGCAAGTTTCGGCGACGACGCGGA 524
QY 531 AAAAGCCTTTTGGGAAGACGAGATAAGTGTGAGGAGAACTGGCGCGTTTTTGGCGG 590
DB 525 CGAGGACTACCAACGCTCGTCAAGAACCCATGCGCGCATGACGCGCTACTCTCAAGA 584
QY 591 CATCATAGAAGAAAAGCGAAAACAAACCGGAACAGGATATTATTTCTATTAGTGAAGC 650
DB 585 CCACTGACCGACCGCGCGCGCGCGCGCGGACGACCTGATCTCGACATGCTGCGCGC 644
QY 651 GGAAGAAACAGCGGAGAGCTGTCGCGTGAAGAGCTGATTCGTTTTTGAACGCTGCTGT 710
DB 645 CCGCGTGGAGGGCGAACCACTCACCGACGAGCAGATCGTCGAATTCGGGGCGCTGCTGT 704
QY 711 GGTGCGCGGAATGAACCACTACAAACCTGATTTCAATGCGATGTACAGCATATTAGA 770
DB 705 GATGCGCGGCCACGCTCCACCTCATGCTGCTCGGCAACACCGTGTGCTGCTGAAGGA 764
QY 771 AACGCGAGCGCTTACGAGGAACCTGCGAGCACTCTGAACTGATGCTTCAGGCACTGA 830
DB 765 CCAACCCCGGGCGAGGCGCGCGCGCGCGCGCGCGCGCTGATCCCGCGCTGATCGA 824
QY 831 GGAAGCCTTTGTTTCAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGTAC 890
DB 825 AGAAGTACTGCGGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 884
QY 891 CGAGATCGGGGCGACCTGATTAAGAGAGGTGATATGTTTGGCGTTTGTGGCATCGCG 950
DB 885 CTTCTTCGCGCGGACACCATCCCGCGCGGACGATGCTGCTGCTGCTGCTGCTGCTGCTG 944
QY 951 AAATCGTATGAAGCAAAAGTTTTCACAGACCGCACATGTTTGATATCCCGCGCGCATCCCAA 1010
DB 945 CAACACGACGAACAGGTCTTCACCGACCCCGACACCTCGACCTCGCGCGGAGGC-- 1002
QY 1011 TCGCATATGCGTTTGGCCACGGAATCCATTTTTCCTTTGGGGCGCGCGCTTTCGCGCT 1070
DB 1003 -CGCCAGATCGCTTTCGGCAGGGATCCACTACTGCTGGGCGCGCGCGCGCGCGCT 1061
QY 1071 TGAAGCAAAATATCGC 1085
DB 1062 GGAGGGCGCGCATCGC 1076
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RESULT 9

US-08-765-907A-6
; Sequence 6, Application US/08765907A
; Patent No. 6352839
; GENERAL INFORMATION:

```
; APPLICANT: BLANC, Veronique
; APPLICANT: THIBAUT, Denie
; APPLICANT: BAMA-JACQUES, Nathalie
; APPLICANT: BLANCHE, Francis
; APPLICANT: COUZET, Joel
; APPLICANT: BARRIERE, Jean-Claude
; APPLICANT: DEBUSSCHE, Laurent
; APPLICANT: FAMECHON, Alain
; APPLICANT: PARIS, Jean-Marc
; APPLICANT: DUTRUC-ROSSET, Gilles
; TITLE OF INVENTION: Streptogramins And Method For Preparing Same By
; FILE REFERENCE: Mutasynthesis
; CURRENT APPLICATION NUMBER: US/08/765,907A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 4496
; TYPE: DNA
; ORGANISM: Streptomyces pristinaespiralis
US-08-765-907A-6

Query Match      9.4%; Score 111.4; DB 3; Length 4496;
Best Local Similarity 48.5%; Pred. No. 7.1e-27;
Matches 415; Conservative 0; Mismatches 416; Indels 24; Gaps 3;

QY 249 CATGACCCGCGGAAGCATACAAAATCCGTTTCAGTCGTGAACAAGCCTTTACTCCGCG 308
DB 2027 CATGACCCGCGGATGCACCGCACCTTGGCCGCTGGTTCAGCAGGCTTCACCCCGCG 2086
QY 309 CGTGATGAAGCAATGGGAACCGGAATTCAGAAATCACAGATGAAGTATCAAAAATT 368
DB 2087 CACGTCGCGGACCTCGAACCCACCGGTCAACGACTGGCGGCACTGCTCGAGCGCT 2146
QY 369 TCAGGGGCGCAGTGTGATTTGACCTTTGTTTCAGATTTTTCATACCGCTTCGCGTTATTGT 428
DB 2147 CGACGGCGACA---CGTTCGACCTCGTCGCGCACTTCGCTTACCGCTGCGCGTGTGATCGT 2203
QY 429 GATATCTGAGCTGCTGGAGTGCTTCAGCGCAGATGGAACAGTTTAAAGCATGCTCTGA 488
DB 2204 GATCGCGGAACCTCTCGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGCTGCTCGCTCGA 2263
QY 489 TCTTCTGTCTAGTACACCG-----AAGGATAAAAGTGAAGAAGCTGA 530
DB 2264 CCGGATGCTGCAGATGCAGGTGCGCGCGCGCGCGCGCATGTCAGTTCGSCGACGACGCGA 2323
QY 531 AAAAGCCTTTTGGGAAGAACGAGATAAGTGTGAGGAAGAACTGGCGCGGTTTTTTGCGCG 590
DB 2324 CGAGGACTTACCAACGCGCTCGTCAAAGAACCCATCGCGGCCATGCAACGCTTACCTCCACGA 2383
QY 591 CATCATAGAAGAAAGCGMAACAAACCGGAACAGATATTATTTCTATTTTAGTGAAGC 650
DB 2384 CCAGTCACCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTGCTGCTGCGCG 2443
QY 651 GGAAGAAACAGCGCAGAGAGCTGTCGCGGTGAAGAGCTGATTCGTTTTTTCACGCTGCTGCT 710
DB 2444 CCGGCTGGAGGCGGAACGACTCACCGACGACAGATCGTTCGAAATTCGGGGCGCTGCTGCT 2503
QY 711 GGTGCGCGAAATGAACCACTACAAACCTGATTTTCAATGCGATGTACAGCATATTAGA 770
DB 2504 GATGCGCGGCACGCTCTCCATCTCGTCTCGGCAACACCGCTGCTGCTGCTGCTGCTGCTG 2563
QY 771 AACCGCAGCGTTTACGAGGAACCTGCGCAGCACTCTGAACTGATGCTCAGGCGAGTGA 830
DB 2564 CCACCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTGATCGA 2623
QY 831 GGAAGCCTTTGCGTTTCAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGTAC 890
DB 2624 AGAAGTACTGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2683
QY 891 GGAGATCGGGGGCGACCTGATTAAGAGAGGTGATATGGTTTTTGGCGTTTGTGGCATCGCG 950
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Db 2684 CGTCTCCGCGCACCAACATCCCGCGGACGATGGTGTGTCCTCCCTGCTGTCCGC 2743
Qy 951 AAATCGTGATGAAGCAAGATTGACAGACCCACATGTTGATATCGCGCCCATCCAA 1010
Db 2744 CAACACAGCAAGGCTTTCACCGACCCCGACCACTCGACCTCGCCCGGAGGC-- 2801
Qy 1011 TCCGATATTCGTTTGGCCACGGCATCCATTTTGGCTTGGGGCCCGCTGTCCTGCT 1070
Db 2802 -CGCAGATCCCTTGGCCACGGCATCCATCTGCTGGCGCCCGCTGCTGCGCGCT 2860
Qy 1071 TGAAGCAATATCGC 1085
Db 2861 GGAGGCGCGCATCGC 2875

RESULT 10

US-09-987-614A-6

; Sequence 6, Application US/09987614A

; Patent No. 683382

; GENERAL INFORMATION:

; APPLICANT: BLANC, Veronique

; APPLICANT: THIBAUT, Denis

; APPLICANT: BAWAS-JACQUES, Nathalie

; APPLICANT: BLANCHE, Francis

; APPLICANT: COUZET, Joel

; APPLICANT: BARRIERE, Jean-Claude

; APPLICANT: DEBUSSCHE, Laurent

; APPLICANT: FAMECHON, Alain

; APPLICANT: PARIS, Jean-Marc

; APPLICANT: DUTRUC-ROSSET, Gilles

; TITLE OF INVENTION: Streptogramins And Method For Preparing Same By

; FILE REFERENCE: Mutasynthesis

; CURRENT APPLICATION NUMBER: US/09/987,614A

; CURRENT FILING DATE: 2001-11-15

; PRIOR APPLICATION NUMBER: US/08/765,907

; PRIOR FILING DATE: 1997-03-20

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 6

; LENGTH: 4496

; TYPE: DNA

; ORGANISM: Streptomyces pristinaespiralis

US-09-987-614A-6

Query Match 9.4%; Score 111.4; DB 4; Length 4496;
Best Local Similarity 48.5%; Pred. No. 7.1e-27;
Matches 415; Conservative 0; Mismatches 416; Indels 24; Gaps 3;

Qy 249 CATGACCCGCGAAGCATACAAATCCGTTGAGTGTGAAAGAGCCTTTACTCGCG 308
Db 2027 CATGACCCGCGGATGACCGCACCTGCGCGCTGCTGACGAGGCTTTCACCCCG 2086
Qy 309 CGTGATGAGCAATGGGACCGAGATTCAGAAATACAGATGAATCAAAATTT 368
Db 2087 CACCGTCGCCGACCTCGAACCACCGCTCACGAACTGCGCGGCAACTGCTCGACGCGT 2146
Qy 369 TCAGGGCGCAGTGAGTTGACCTGTTTCAGATTTTTCATACCGCTTCGCGTTATGT 428
Db 2147 CGACGGGACA---CGTTGACCTGCTGCGCGACTTTCGCTTACCGCTGCGCGTATGCT 2203
Qy 429 GATATCTGAGCTGCTGGAGTGCCTTCAGCGCAGATGGAAACAGTTTAAAGCATGGTCTGA 488
Db 2204 GATCGCGCAACTCTCTCGCGGTGCGCGCGACCGCACCTGTTTCGCTCTGTCGTA 2263
Qy 489 TCTTCTGTCTAGTACACG-----NAGGATAAAGTGAAGAGTGA 530
Db 2264 CCGATGCTGCAGATGCGAGGTGCGCGACCCCGCGGACATGAGTTCGCGCAGCGCGA 2323
Qy 531 AAAAGCCTTTTGGAAAGACGAGATAGTGTGAGGAAGAACTGCGCGGTTTTTGGCGG 590
Db 2324 CGAGACTTACCAACGCTCTGTCAAAGAACCCATGCGCGCCATGACGCTTACCTCCAGGA 2383

Qy 591 CATCATAGAAAGAAACGAAACAAACCGGAAAGAGATATTATTCTATTATTTAGTGAAGC 650
Db 2384 CCACGTCACCGACCGCGCGCCCGCGGAAACGACCTGATCTCGCACTCGTTCGCGCG 2443
Qy 651 GGAAGAAACAGCGGAGAGAGCTGTCGCTGAGAGCTGATTCGCTTTTTCACAGCTGCTGCT 710
Db 2444 CCGGTTGAGGGGAGAGAGCTCACCGACGAGAGAGTGTGAAATTCGCGGCGCTGCTGCT 2503
Qy 711 GGTGGCCGGAATGAAACCACTACAAACCTGATTTCAAATGCGATGTAACAGCATATTAGA 770
Db 2504 GATGGCGCGCACGCTCTCCACCTCCATGCTGCTCGGCAACACCGTGTGTCCTGGAAGGA 2563
Qy 771 AACGCCAGGCTTTTACGAGGAACCTGCGAGCCATCTGAACTGATGCTCAGGAGTGA 830
Db 2564 CCACCCCGCGGAGCGCGCCCGCGCGGATCCGCTGATCCCGCCCTGATCGA 2623
Qy 831 GGAAGCCTTCGCTTTCAGAGCGCGCGCGCTTTTGGAGCGCATTCGCAAGCGGATAC 890
Db 2624 AGAAGTACTGCGCTGCGCGCGCGATCACCGTATGCGCGCTCACCAACAGAGAC 2683
Qy 891 GGAGATCGGGGGCACCTGATTAAAGAAAGTGATATGTTTGGCGTTTGTGGCATCGGC 950
Db 2684 CGTCTCGCGCGCACCACTCCCGCGGACGATGTCGTGCTGCTGCTGCTGCTGCTG 2743
Qy 951 AATCTGTGATGAAGCAAGTTTTCAGAGCGCGCATGTTTGATATTCGCGCGCATCCAA 1010
Db 2744 CAACACGAGCAAGAGTCTTTCACCGACCCCGACCACTCGACCTCGCGCGAAGGC-- 2801
Qy 1011 TCCGATATTCGCTTTGGCCACGCGCATTCATTTTTCCTTGGGGCGCGCTGCGCGCT 1070
Db 2802 -CGCAGATCGCTTTCGCGCACGCGCATCTACTGCTGGCGCGCGCTGCGCGCT 2860
Qy 1071 TGAAGCAATATCGC 1085
Db 2861 GGAGGCGCGCATCGC 2875

RESULT 11

US-09-252-991A-1265

; Sequence 1265, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE REFERENCE: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 1265

; LENGTH: 1314

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-1265

Query Match 9.2%; Score 109.8; DB 4; Length 1314;
Best Local Similarity 47.6%; Pred. No. 1e-26;
Matches 422; Conservative 0; Mismatches 432; Indels 33; Gaps 2;

Qy 240 CATCATTAACATGACCGCGGAGAGATACAAAATCCGTTTTCAGTCTGTGAAACAAAGCTTT 299
Db 318 CATGCTCAACTCGACCGCGCGGACCATACCCCGCTGCGCTGCTGCTGCGCGCGGTT 377
Qy 300 TACTTCGCGCGTGTGAAGCAATGGAAACGAGAAATTCAGAAATCAGATGAATGAT 359
Db 378 CACCCCGCGCAGTGTGAGGCGCTGCAACCGCATATAGAACGATCACCGAGGAATGCT 437
Qy 360 TCAAAATTTTCAGGGGCGAGTGTGACCTTGTTCAGATTTTTCATACCGCTTCC 419

Db	438	GGAGCCCATGGCCGCGCGGAAACAGGCCGACCTGTATGCCGCACTTCGCGATCCCGCTGAC	497
Qy	420	GGTTATTGTGATATCTGAGCTGTGGGAGTGCCTTCAGCGCAGATGAAACAGTTTAAAGC	479
Db	498	CATCGCGGTGATCTTCGAGCTGTGGCATTCGCGAGGCCGAGCGACACGCCCGCCA	557
Qy	480	ATGGTCTGATCTTCTGTGTCAGTACACCGAAGGATAAAGTGAAGAGCTGTAAAGACCTT	539
Db	558	GTCCTGGAGCGCCAG-----GCGGAACGTGCTGTC	587
Qy	540	TTTGGAGACGAGATRAAGTGTGAGGAAGAACTGGCGCGCTTTTTCGCGCATCATAGA	599
Db	588	GCCGGAGAGGCCCGAGGCCCTGCGCGATGCGCAGGTGCACTACCTGCGGTGCTGCTCGA	647
Qy	600	AGAAAGCCGAAAACAAACCGNAACGAGATATTATTTCTATTATTAGTGAAGCGGAAGAAC	659
Db	648	GGCCNAGCGCGGCAGCCAGCGNAGCTCTACAGCGGCTGGTGCAGGCCCGCCACGA	707
Qy	660	AGGCGAGAAGCTGTCCGGTGAAGAGCTGATTCGGTTFTTGACGCTGTGCTGTGCGCCGG	719
Db	708	GAGCGGCCAACTGAGCGAGGCGGAACCTCGTCTCCATGGCCCACTGCTGATGATGAGCGG	767
Qy	720	AAATGAACACACTACAAACCTGATTTTCAAATGCGATGTACAGCATATTAGAAACGCCAGG	779
Db	768	CTTCGAGACCACCATGAACATGATCGGCACGCGCTGGTCAACCCTGCTGCTCAACCCGGA	827
Qy	780	CGTTTACGAGGAACTGCGCAGCCATCTGAACTGATCCCTCAGCGAGTGAAGAAAGCCTT	839
Db	828	GCAACTCGGTGTGCGGGGCGACCGGAACCTCTGCCCAACGCCATGGAAGAACTGGT	887
Qy	840	CGGTTTCAGAGCGCCGCCCGGTTTTTGAG---GCGCATTTGCCAAGCGGGATACGGAGAT	896
Db	888	CCGCCACGACAGCCCGGTGCGCGCTCGATGTTGGCGCTTCACCGTGAAGACGCTGGAAC	947
Qy	897	CGGGGGGCACTGATTTAAAGAGTGATGTGTTTTGGCGTTTTGTGGCATCGGCAATCG	956
Db	948	GGACGGGGTCAACATTCCCGCGCGGAATACATCCTGGTCTCCAAACGTGACGCCAACCA	1007
Qy	957	TGATGAAGCAAAAGTTTGACAGACCGCACATGTTTGATATCGCGCGCCATCCCAATCGCA	1016
Db	1008	CGAGCCCGAGGGCTTCGACGATCCCGACCGGCTCGACTCACCCGCAACACCGATGGCCA	1067
Qy	1017	TATTGCGTTTTGGCCACGGCATCCATTTTTTGCTTTGGGGCCCGCTTGCCCGTCTTGAAGC	1076
Db	1068	TCTCGGCTACGGCTTCGCGGTGCACTACTGCGTGGCGCTCGCTGCGCCCGGCTGGAGGG	1127
Qy	1077	AAATATCGCGTTAAGCTTCTTGATTTCTGCTTTTTCCTCATATGAGT	1123
Db	1128	GCGGATCGGCATCCAGCGCCTGCTCGGCGCTTCCCGAGCTCCAGT	1174

RESULT 12
US-09-252-991A-1338/c
; Sequence 1338, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 1338
; LENGTH: 1482
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1338

Query Match	9.2%	Score 109.8	DB 4	Length 1482
Best Local Similarity	47.6%	Pred. No. 1.1e-26		
Matches 422	Conservative 0	Mismatches 432	Indels 33	Gaps 2
Qy	240	CATCATTTAAATGAGACCGCGCGAAGCATACAAAATCCGTTTCAGTTCGTGTAACAAAGCGCTT	299	
Db	1189	CATGCTCACTCGACCGCGCGAACCATACCCGCTGGCTCGCTGCTGCGCGCGGCTT	1130	
Qy	300	TACTCCGCGCGTGAATGAAGCAATGGGAACCGAGAAATTCAGAAATACAGATGAACACTGAT	359	
Db	1129	CACCCGCGCGAGTGGAGCGCTGCAACCGCATATAGAACCGATACACCGAGGAATTCGT	1070	
Qy	360	TCAAAAATTCAGGGGGCGAGTCAGTTTGACCTTGTTACGATTTTTCATACCGGCTTCC	419	
Db	1069	GGACGCCATGGCGCGCGCAACAGGCGCACTGTATGGCGCACTTCGCGATCCCGCTGCAC	1010	
Qy	420	GGTATTGTGCATATCTGAGCTGCTGGAGTGCCTTCAGCGCAGATGAAACAGTTTAAAGC	479	
Db	1009	CATCGCGGTGATCTTTCAGCTGCTGGGCATTCGAGGCGCGAGCGCGNAACAGCCCGCCA	950	
Qy	480	ATGCTCTGATCTTCTGGTTCAGTACACCGAAGGATAAAAGTGAAGAACTGAAAAGCGCTT	539	
Db	949	GTCTGGGAGCGCCAG-----CGCGAACTGCTGTC	920	
Qy	540	TTTGGAAAGACGAGATAAGTGTAGGAGAACTGGCGCGCTTTTTCGCGGCATCATAGA	599	
Db	919	GCGGAGAGGCGCCAGGCCCTTGGCCGATGCGCAGGTCGACTACCTGCGCGTCTGCTCGA	860	
Qy	600	AGAAAACGGAAACAAACCGGAACAGGATATTATTCTATTAGTGAAGCGGAAGAAGAAC	659	
Db	859	GGCCAGCGCGCGCAGCCACCGACGACGTCCTACAGCGGCGTGGTCAGGCGCGCGACGA	800	
Qy	660	AGGCGAGAAGCTGTCCGSTGAAGAGCTGATTCGCTTTTGCACGCTGCTGTGTTGGCGGG	719	
Db	799	GAGCGGCCAATGAGCGAGGCGGAACCTGCTCTCCATGCCACCTGCTGATGATGAGCGG	740	
Qy	720	AAATGAACACATACAAACCTGATTTCAAATGGATGTACAGCATATTAGNAACGCCACG	779	
Db	739	CTTCGAGACCACTGAACATGATTCGCAACGGCGCTGCTCACCTGTGTTGTTCAACCCGGA	680	
Qy	780	CGTTTACGAGAACTGCGCAGCCATCTGAGCACTGATCCCTCAGGCACTGGAGGAAGCTT	839	
Db	679	GCAACTGGCGTGTGCGGGCGCAGCCGAACTCTCTGCCAACGCCATGGAGAACTGGT	620	
Qy	840	CGCTTTTCAGAGCGCGGCCCGCTTTTGTAG---GCGCAITTCGCAAGCGGGATACGGAGAT	896	
Db	619	CCGCCACGACAGCCCGTGGCGCTCGATGTTGGCTTCACCGTGAAGACGTTGGAACCT	560	
Qy	897	CGGGGGGCACTGATTAAGAAAGGTGATGTTTGGCGTTTGTGGCATCGGCAATACG	956	
Db	559	GGACGGGTCACCAATCCCGCGCGCAATACATCTCGTGTCTCCAAACCTGACCGCAACCA	500	
Qy	957	TGATGAAGCAAGTTTTCAGACGCGACATGTTTGATATCGCGCGCATCCCAATCCGCA	1016	
Db	499	CGAGCGCGAGCGCTTTCAGCATCCCGACCGGCTCGACCTTACCCGCAACACCGATGGCCA	440	
Qy	1017	TATTGCGTTTGGCCACCGCATCCATTTTTCCTTTGGCGCCCGCTTGCCTTTTGAAGC	1076	
Db	439	TCTCGGCTACGGCTTTCGGGTGCACTACTGGTCGGCGCTCGCTGGCCCGGCTGGAGG	380	
Qy	1077	AAATATCGCGTTAAAGCTTTTGATTTCTGCTTTTCTCATATGAGAT	1123	
Db	379	CGCGATCGCATACGAGCGCTGCTCGGCGCTTCCCGGACCTCCAGT	333	

RESULT 13
US-09-252-991A-1222
; Sequence 1222, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND
; TITLE OF INVENTION: AERUGINOSA FOR DI

FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252.991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 1222
LENGTH: 1671
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1222

Query Match 9.2%; Score 109.8; DB 4; Length 1671;
Best Local Similarity 47.6%; Pred. No. 1.2e-26;
Matches 422; Conservative 0; Mismatches 433; Indels 33; Gaps 2;

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Qy 240 CATCATTAACATGACCCGCGAGACATACAAAATCCGTTCACTGCTGTAACAAGCCTT 299
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 253 CATGCTCAACCTCGACCCGCGGACCATACCCGCTGCGCTCGCTGCTGCGCGCGGTT 312
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 300 TACTCCGCGCTGATGAGCATGGACCGAGATTCACGAATCAAGAAATCAAGATGAATGAT 359
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 313 CACCCCGCGCAGGTGGAGCCCTGCAACCCGATAGACGATACCCGAGGAATTGCT 372
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 360 TCAAAAATTTTCAGGGCGCAGTGTGACCTTTGACCTTTTCCAGATTTTTCATACCCGCTTCC 419
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 373 GGAGCCATGCCGCGCGACAGCCGACCTGATGGCGACTTCGGATCCCGCTGAC 432
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 420 GGTATTGTGATATGAGCTGTGGAGTGCCTTTACGCGAGATGGAACAGTTTAAAGC 479
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 433 CATCGCGTGTATCTTCAGAGCTGTGGCATTTCCGAGCGCGGACCAACACGCCGCCA 492
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 480 ATGCTCTGATCTTCTGGTCACTACACCGAAGTAAGAGTGAAGTGAAGAGCCTT 539
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 493 GTCTTGGAGCGCCAG-----GCGGAACCTGCTGTGTC 522
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 540 TTGGAAGAACGAGATAGTGTGAGGAAGAACTGGCCGCTTTTTCGCCGCATCATAGA 599
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 523 GCCGAGAGGCCCGAGCCCTGGCGATGCGCAGGTGACTACCTGCGGTGCTGCTGA 582
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 600 AGAAAGCGAAACAAACCGGAACAGGATATTTATTTTATTTAGTGAAGCGGAAGAAC 659
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 583 GGCCAAAGCGCGGACGACCGACGACGCTACAGCGGGCTGTGCGAGGCGCGCGACGA 642
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 660 AGCGAGAGCTGTCCGCTGAAGAGCTGATTCGTTTGCACGCTGCTGCTGCTGCGCG 719
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 643 GAGCGGCCAATGAGCGAGGCGGAACCTGCTCTCATGGCCACCTGCTGTGATGATGAGCGG 702
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 720 AAATGAACCACTACAAACCTGATTTCAAATGCGATGTACAGCATATTAGAAACGCCAGG 779
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 703 CTTGAGACCAACCATGATGATGCGGACGCGCTGTGCTACCTGTGCTGCTCAACCCGA 762
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 780 CGTTTACGAGAACTGCGACGCCATCTTGAATGATGCTCAGGCACTGGAAGAGCCTT 839
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 763 GCAACTGCGTGTGCTGCGGCGGACGCGGAACCTCTGCGCAACGCCATGGAAGAACTGGT 822
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 840 CGGTTTACAGCGCGCGCGCTTTTGG--GCGCATTCGAAGCGGATACGAGAT 896
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 823 CCGCCACGACAGCCGCGTGTGCGGCTGATGTGCGCTTTCACCGTGAAGACGTGGAACT 882
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 897 CGGGGGGCACTGATTAAGAAAGTGTATGTTTGGCGTTTGTGGCATCGGCAAAATCG 956
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 883 GGACGGGTCAACATTCCCGCGCGGGAATACATCTGTCTCCAACTGACCGCCACCA 942
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 957 TGATGAAGCAAGTTTGAAGACCGCACATGTTTGAATACCGCGGCCATCCCAATCCGCA 1016
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 943 CGACGCCGAGCGCTTCGACGATCCCGACCGCTCGACCTCACCCGCAACCGATGGCA 1002
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1017 TATTGCGTTTGGCCACGCGATCCATTTTGGCTTGGGGCCCCGCTTGGCCGCTTTGAAGC 1076
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1003 TCTCGGCTACGGCTTCGGCGTGCACCTACTGCGTGGGCGCTTCTGCTGGCCCGCTGGAGG 1062
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Qy 1077 AAATATCGCGTTAACGCTTTTGTGATTTTCTGCTTTTCTTCTCATATGAGT 1123
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1063 GCGGATGCCATCAGCGCCTGCTCGCGCGCTTCCCGGACCTCCAGT 1109
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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RESULT 14

US-09-029-603-4
Sequence 4, Application US/09029603
Patent No. 6210935
GENERAL INFORMATION:
APPLICANT: Schupp, Thomas
APPLICANT: Engel, Natalie
APPLICANT: Bietenholder, Jurg
APPLICANT: Toupet, Christine
APPLICANT: Pospiech, Andreas
TITLE OF INVENTION: Staurosporin Biosynthesis Gene Clusters
FILE REFERENCE: 4-20555/A/PCT
CURRENT APPLICATION NUMBER: US/09/029,603
CURRENT FILING DATE: 1998-03-20
EARLIER APPLICATION NUMBER: PCT/EP96/03643
EARLIER FILING DATE: 1996-08-19
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 6085
TYPE: DNA
ORGANISM: Streptomyces longisporoflavus
FEATURE:
NAME/KEY: misc RNA
LOCATION: (378)..(1665)
OTHER INFORMATION: ORF
FEATURE:
NAME/KEY: misc RNA
LOCATION: (1747)..(2553)
OTHER INFORMATION: ORF
FEATURE:
NAME/KEY: misc RNA
LOCATION: (2593)..(4011)
OTHER INFORMATION: ORF
FEATURE:
NAME/KEY: misc RNA
LOCATION: (4013)..(4999)
OTHER INFORMATION: ORF
FEATURE:
NAME/KEY: misc RNA
LOCATION: (5071)..(6085)
OTHER INFORMATION: ORF
US-09-029-603-4

Query Match 8.7%; Score 103.6; DB 3; Length 6085;
Best Local Similarity 51.0%; Pred. No. 4.5e-24;
Matches 244; Conservative 0; Mismatches 234; Indels 0; Gaps 0;

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Qy 623 AGGATATATTCTATTTTATGTAAGCGGAAGAAACAGCGGAGAGCTGTCGGTGAAG 682
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 583 AGCTGATTCGTTTTCACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 742
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1108 GCATCGTGGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1167
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 743 TTTCAAATGCGATGTACAGCATATTAGAAACGCCGAGCGTTTACGAGGAACCTGCGCAGCC 802
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1168 TCGCAGGGCGGTCTTCCCTGCGGCGCCACCTGCGGCTGCTGCTGCTGCTGCTGCTGCTG 1227
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 803 ATCTGAACTGATGCTCTAGGCACTGGAAGAGCCTTTCGCTTTCAGAGCCGCGCCCGG 862
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1228 CACCGGAGTGCACACCGCGCGCTGCAAGAGCTGATGCGGTACGACCCCGCTGCGAGG 1287
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 863 TTTTGAAGCCGATTCACAGCGGATACGAGATCGGGGGGACCTGATTAAGAAAGGTG 922
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 1288 CGGTGACGCGCTGGGCGTACGAGGACATCCGGCTCGGCGGACACGACATCCCGCGCGCA 1347
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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